					STATE ( ARTMENT OF N. VISION OF OIL,						AMENDED R	FORM 3	
		APPLI	CATION FOR	PERMIT 1	O DRILL	1. WELL NAME and NUMBER Ute Tribal 30-05							
2. TYPE O		L NEW WELL 📵	REENTER P&	A WELL	DEEPEN WEL	3. FIELD OR WILDCAT ANTELOPE CREEK							
4. TYPE O		Oil We		ed Methane		5. UNIT or COMMUNITIZATION AGREEMENT NAME ANTELOPE CREEK							
6. NAME O	F OPERATOR		PETROGLYPH OF						7. OPER	ATOR PHON			
8. ADDRES	SS OF OPERATOR					9. OPER	ATOR E-MAI						
	RAL LEASE NUME , INDIAN, OR ST	BER	auria, riro, oto	11. MINE	RAL OWNERSHI	· .	٦	400		FACE OWNE	RSHIP		0
		-H62-3519	= 'fee')	FEDERAL	INDIAN (I	STATE (_	) FE	E()	FEDERA  14. SUR		IAN I ST	DOX 12 =	'fee')
	ESS OF SURFACE										R E-MAIL (if		
		•	•	18. INTEN	D TO COMMING	LE PRODUCTI	ON FRO		19. SLAI				
	.N ALLOTTEE OR = 'INDIAN') Ute In	dian Tribe		MULTIPLE YES	FORMATIONS (Submit Commir	ngling Applicatio	on) NC	o 📵	VERTICA	L DIRE	CTIONAL 📵	HORIZ	ONTAL (
20. LOCA	TION OF WELL		FO	OTAGES	Q	TR-QTR	SEC	CTION	точ	VNSHIP	RANGE		MERIDIAN
LOCATIO	N AT SURFACE		2042 FI	NL 353 FW	L :	SWNW		30		5.0 S	3.0 W	$\neg$	U
Top of Up	permost Produc	ing Zone	1990 FI	NL 580 FW	L :	SWNW		30		5.0 S	3.0 W		U
At Total [	Depth		1990 FI	NL 580 FW	L S	SWNW 30		5.0 S 3.0 W			U		
21. COUN		HESNE		22. DISTA	NCE TO NEARES	T LEASE LINE	(Feet)		23. NUM	IBER OF ACR	ES IN DRILL 640	ING UNI	Т
					NCE TO NEARES or Drilling or Co		ME PO	<b>O</b> L	26. PRO	POSED DEPT MD:	Γ <b>Η</b> 5719 TVD:	5714	
27. ELEVA	TION - GROUND	<b>LEVEL</b> 5161		28. BOND		556					LLING WATE ROVAL NUM 43-8342		PPLICABLE
0		01			Casing, and C				14/1		0	Mi-1-1	NAT - Lordo A
String	Hole Size	Casing Size	2 Length	Weig		& Thread	<del>                                     </del>	Max Mud 10.0		Cement Class G	Sacks 25	Yield 1.17	Weight 15.8
Surf	12.25	8.625	0 - 480			55 ST&C	_	10.0 Class G 23 1.17				15.8	
Prod	7.875	8.625	0 - 571			·55 LT&C	+	10.0	)	Class G	472	1.91	12.5
										Class G	265	1.46	13.4
					ATTACI	HMENTS							
	VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES												
<b>W</b> E	LL PLAT OR MAP	PREPARED BY	LICENSED SUR	VEYOR OR	ENGINEER	СОМЕ	LETE D	RILLING	PLAN				
AFF	IDAVIT OF STAT	FEE SURFACE)	FORM	5. IF O	PERATOR	R IS OTH	ER THAN TH	E LEASE OW	NER				
DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY TOPOGRAPHICAL MAP													
NAME Ed	Trotter			TIT	<b>LE</b> Agent			PHONE	435 789-	4120			
SIGNATU	RE			DAT	<b>E</b> 08/30/2011			EMAIL 6	edtrotter@	Deasilink.com			
	BER ASSIGNED 1350935000	00		АРР	ROVAL			B	Permit M	Sanager (			

# <u>CONFIDENTIAL</u> NINE POINT PLAN

# UTE TRIBAL 30-05 SW/NW, SEC. 30, T5S, R3W DUCHESNE COUNTY, UTAH

# 1. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

FORMATIONS	DEPTH	SUBSEA
Qal	Surface	Surface
Uinta	30	6131
Green River	1061	5100
Trona	2297	3865
Mahogany Shale	2457	3705
"B" Marker	3520	2643
"X" Marker	4006	2158
Douglas Creek	4151	2013
"B" Limestone	4522	1642
B/Castle Peak Limestone	5082	1083
BSCARB	5511	654
Total Depth	5719	
Anticipated Maximum BHP	1800	

# 2. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS FORMATIONS:

<b>Substance</b>	<b>Formation</b>	<b>Depth</b>	<u>Subsea</u>
Oil/Gas	Douglas Creek	4151	2013
Oil/Gas	B/Castle Peak	5082	1083
Base of moderately saline			
ground water	Uinta	61	6100

# 3. PRESSURE CONTROL EQUIPMENT: See attached 2000 psi BOP Schematic Diagram.

## BOPE TESTING PROCEDURE:

- 1. The BOPE will be tested by a professional tester to conform to Onshore Order #2.
- 2. The flow line will have a minimum diameter of 10".

## 4. CASING PROGRAM:

Hole	Casing	Top – MD	Bottom – MD	Weight lb/ft	Grade	Thread
18"	14"	sfc	40'	steel	cond	none
12 1/4"	8 5/8"	sfc	480'	24.0	J-55	STC
7 7/8"	5 1/2"	sfc	5719'	15.5	J-55	LTC

# **CONFIDENTIAL NINE POINT PLAN**

# UTE TRIBAL 30-05 SW/NW, SEC. 30, T5S, R3W DUCHESNE COUNTY, UTAH

Casing Stre	ngths:		Collapse	Burst	Tensile	
8 5/8"	24.0 lb.	J-55	STC	1,370 psi	2,950 psi	263,000 lb
5 1/2"	15.5 lb.	J-55	LTC	4,040 psi	4,810 psi	239,000 lb

All casing will be new or inspected.

#### 5. MUD PROGRAM

INTERVAL
0' - 480'
Air/Aerated Water
480' - 5719'
Water with DAP or

Water with DAP or DAP alternative

Gel/polyacrylamide plolymer w/5-10% LCM, LSND as conditions warrant

Sufficient mud/kill medium inventory will be maintained on location in either tanks or the reserve pit during drilling of the surface and production holes to handle any adverse conditions that may arise. A mud weight of 9.5# to 10.5# will be maintained during drilling of the production hole.

The rat and mouse holes will be drilled with the Air Rig after the surface casing is set. Rig mounted and skid mounted air compressors capable of producing 2200 CFM at 350 psi will be used.

## 6. CEMENT PROGRAM:

#### 20" Conductor:

Cement to surface with construction cement.

#### 8 5/8" Casing: sfc - 480"

**Lead/Tail Slurry: 0' - 480'**: 221 sks (258 cu ft) Class G cement + 0.25 lblsk

Cello Flake + 2% CaCl<sub>2</sub>. Slurry wt: 15.8 ppg, Slurry yield: 1.17 ft<sup>3</sup>/sk,

Slurry volume: 12-1/4" hole + 30% excess. (Cement will be circulated to surface).

# 5 1/2" Casing: sfc - 5719'

**Lead Slurry: sfc - 4000':** 472 sks (901 cu ft) EXPANDACEM System (Class "G" + additives) + 1 lb/sx Granulite TR ¼ (Lost Circulation Material) (12.5 PPG±, 1.91 ft<sup>3</sup>/sk) hole + 30% excess.

#### **Tail Slurry:**

**4000'- 5719':** 265 sx (387 cu ft) EXPANDACEM System (Class "G" + additives) + 1 lb/sx Granulite TR  $\frac{1}{4}$  (Lost Circulation Material (13.4 ppg $\pm$ , 1.46ft $^3$ /sk) hole + 30% excess. Cement will be circulated to surface with top job as needed.

# **CONFIDENTIAL NINE POINT PLAN**

# UTE TRIBAL 30-05 SW/NW, SEC. 30, T5S, R3W DUCHESNE COUNTY, UTAH

#### 7. VARIANCE REQUESTS:

- 1. Operator requests a variance to regulations requiring the blooie line discharge be 100' from the well bore. Due to reduced location size, the blooie line discharge will be approximately 75' from the well bore and securely anchored.
- 2. Operator requests a variance to regulations requiring a straight run blooie line. Due to the location of the flare pit the blooie line will have two targeted "Ts".
- 3. Operator requests a variance to regulations requiring Deduster Equipment on the blooie line. A mister will be used at the end of the blooie line when drilling with air only.
- 4. Operator requests a variance to regulations requiring an automatic igniter or continuous pilot light on the blooie line. An air/air-mist drilling system will be used.
- 5. Operator requests a variance to regulations requiring the compressors be located in the opposite direction from the blooie line a minimum of 100 feet from the well bore. Due to reduced location size the compressors will be located as close as is reasonable to the opposite direction from the blooie line and 75' from the well bore.
- 6. Operator requests a variance to regulations requiring a BOPE on the hole when drilling the surface hole. An air bowl will be utilized on the diverter system in place of a BOPE.

#### 8. EVALUATION PROGRAM:

Logs: Platform Express TD to base of surface casing (DLL, MSFL, CNG, CDL, GR)

Cores: None anticipated DST: None Programmed

Completion: To be submitted at a later date.

# 9. <u>ABNORMAL CONDITIONS:</u>

None anticipated. Based on operators past drilling experience in the area the encounter of any over pressured formations or H<sub>2</sub>S are not anticipated.

#### **10 OPERATIONS:**

All engine exhausts within 100 feet of the well bore will be equipped with spark arrestors.

All cuttings and circulating medium shall be directed into the reserve or booie pit.

# <u>CONFIDENTIAL</u> NINE POINT PLAN

# UTE TRIBAL 30-05 SW/NW, SEC. 30, T5S, R3W DUCHESNE COUNTY, UTAH

A float valve will be run above the bit with sufficient rating to prevent flow back.

An air/mist and fluid/mud drilling system will be used.

All casing will be new or inspected.

Based on operators past drilling experience in the area the encounter of any over pressured formations or H<sub>2</sub>S are not anticipated.

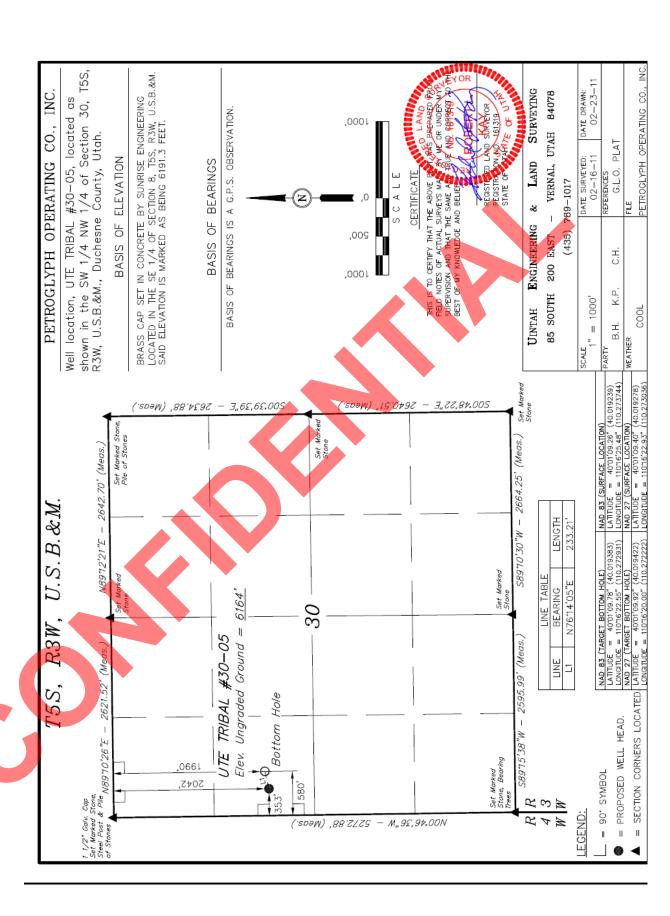
#### 11. STANDARD REQUIRED EQUIPMENT:

None Required

#### 12. HAZARDOUS CHEMICALS:

No chemicals subject to reporting under SARA title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling of this well.

(Attachment: BOP Schematic Diagram)







Duchesne County, UT NAD83 UTE Tribal 30-05 UT 30-05

Wellbore #1

Plan: Plan #1

# **Standard Planning Report**

09 May, 2011

## Scientific Drilling International, Inc.

Planning Report

Database: Company: Project: Rockies Compass Server Petroglyph Operating Co. Inc. Duchesne County, UT NAD83

 Site:
 UTE Tribal 30-05

 Well:
 UT 30-05

 Wellbore:
 Wellbore #1

 Design:
 Plan #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well UT 30-05

WELL @ 6164.00ft (Original Well Elev) WELL @ 6164.00ft (Original Well Elev)

True

Minimum Curvature

Project Duchesne County, UT NAD83

Map System: US State Plane 1983

Geo Datum: North American Datum 1983

Map Zone: Utah Central Zone

System Datum:

Mean Sea Level

Site UTE Tribal 30-05

Site Position: From: Position Uncertainty:

Lat/Long Northing:

Lat/Long Easting:

0.00 ft Slot Radius:

7,178,085.54 usft
1,983,827.95 usft
13.200 in

Grid Con

Longitude:
Grid Convergence:

40° 1' 9.260 N 110° 16' 25.480 W 0.79 °

Well UT 30-05, 2042 FNL & 353 FWL

Well Position +N/-S +E/-W
Position Uncertainty

S 0.00 ft W 0.00 ft 0.00 ft Northing: Easting: Wellhead Elevation: 7,178,085.54 usft 1,983,827.95 usft

Latitude: Longitude: Ground Level: 40° 1' 9.260 N 110° 16' 25.480 W

ound Level: 0.00 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2010	4/7/2011	11,42	65.74	52,240

Design	Plan #1					
Audit Notes:						
Version:		Phase:	PLAN	Tie On Depth:	0.00	
Vertical Section:		Depth From (TVD)	+N/-S	+E/-W	Direction	
		(ft)	(ft)	(ft)	(°)	
		0.00	0.00	0.00	77.00	

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	
709.73	2.62	77.00	709.65	1.08	4.67	1.25	1.25	0.00	77.00	
5,719.32	2.62	77.00	5,714.00	52.62	227.94	0.00	0.00	0.00	0.00	UT 30-05 Target

## Scientific Drilling International, Inc.

Planning Report

Database: Company: Project:

Site:

Rockies Compass Server Petroglyph Operating Co. Inc. Duchesne County, UT NAD83

UTE Tribal 30-05

Well: UT 30-05
Wellbore: Wellbore #1
Design: Plan #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well UT 30-05

WELL @ 6164.00ft (Original Well Elev) WELL @ 6164.00ft (Original Well Elev)

True

Minimum Curvature

Design:	Plan #1								
Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00 400.00	0.00 0.00	0.00 0.00	300.00 400.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00	0.00	0.00 0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	1.25	77.00	599.99	0.25	1.06	1.09	1.25	1.25	0.00
700.00	2.50	77.00	699.94	0.98	4.25	4.36	1.25	1.25	0.00
709.73	2.62	77.00	709.65	1.08	4.67	4.80	1.25	1.25	0.00
800.00	2.62	77.00	799.83	2.01	8.70	8.93	0.00	0.00	0.00
900.00	2.62	77.00	899.73	3.04	13.15	13.50	0.00	0.00	0.00
1,000.00	2.62	77.00	999.62	4.07	17.61	18.07	0.00	0.00	0.00
1,100.00	2.62	77.00	1,099.52	5.09	22.07	22.65	0.00	0.00	0.00
1,200.00	2.62	77.00	1,199.41	6.12	26.52	27.22	0.00	0.00	0.00
1,300.00	2.62	77.00	1,299.31	7.15	30.98	31.80	0.00	0.00	0.00
1,400.00	2.62	77.00	1,399.20	8.18	35.44	36.37	0.00	0.00	0.00
1,500.00	2.62	77.00	1,499.10	9.21	39.89	40.94	0.00	0.00	0.00
1,600.00	2.62 2.62	77.00	1,599.00	10.24	44.35	45.52 50.09	0.00	0.00	0.00
1,700.00 1,800.00	2.62	77.00 77.00	1,698.89 1,798.79	11.27 12.30	48.81 53.26	54.67	0.00 0.00	0.00 0.00	0.00 0.00
1,900.00	2.62	77.00	1,898.68	13.33	57.72	59.24	0.00	0.00	0.00
2,000.00 2,100.00	2.62 2.62	77.00 77.00	1,998.58 2,098.47	14.35 15.38	62.18 66.63	63.81 68.39	0.00 0.00	0.00 0.00	0.00 0.00
2,200.00	2.62	77.00	2,198.37	16.41	71.09	72.96	0.00	0.00	0.00
2,300.00	2.62	77.00	2,298.26	17.44	75.55	77.53	0.00	0.00	0.00
2,400.00	2.62	77.00	2,398.16	18.47	80.00	82.11	0.00	0.00	0.00
2,500.00	2.62	77.00	2,498.05	19.50	84.46	86.68	0.00	0.00	0.00
2,600.00	2.62	77.00	2,597.95	20.53	88.92	91.26	0.00	0.00	0.00
2,700.00	2.62	77.00	2,697.84	21.56	93.37	95.83	0.00	0.00	0.00
2,800.00	2.62	77.00	2,797.74	22.58	97.83	100.40	0.00	0.00	0.00
2,900.00	2.62	77.00	2,897.63	23.61	102.29	104.98	0.00	0.00	0.00
3,000.00	2.62	77.00	2,997.53	24.64	106.74	109.55	0.00	0.00	0.00
3,100.00	2.62	77.00	3,097.43	25.67	111.20	114.13	0.00	0.00	0.00
3,200.00 3,300.00	2.62 2.62	77.00 77.00	3,197.32 3,297.22	26.70 27.73	115.66 120.11	118.70 123.27	0.00 0.00	0.00 0.00	0.00 0.00
3,400.00	2.62	77.00	3,397.11	28.76	124.57	127.85	0.00	0.00	0.00
3,500.00 3,600.00	2.62 2.62	77.00 77.00	3,497.01 3,596.90	29.79 30.82	129.03 133.48	132.42 137.00	0.00 0.00	0.00 0.00	0.00 0.00
3,700.00	2.62	77.00	3,696.80	31.84	137.94	141.57	0.00	0.00	0.00
3,800.00	2.62	77.00	3,796.69	32.87	142.40	146.14	0.00	0.00	0.00
3,900.00	2.62	77.00	3,896.59	33.90	146.85	150.72	0.00	0.00	0.00
4,000.00	2.62	77.00	3,996.48	34.93	151.31	155.29	0.00	0.00	0.00
4,100.00	2.62	77.00	4,096.38	35.96	155.77	159.86	0.00	0.00	0.00
4,200.00	2.62	77.00	4,196.27	36.99	160.22	164.44	0.00	0.00	0.00
4,300.00	2.62	77.00	4,296.17	38.02	164.68	169.01	0.00	0.00	0.00
4,400.00	2.62	77.00	4,396.06	39.05	169.14	173.59	0.00	0.00	0.00
4,500.00	2.62	77.00	4,495.96	40.07	173.59	178.16	0.00	0.00	0.00
4,600.00 4,700.00	2.62 2.62	77.00 77.00	4,595.86 4,695.75	41.10 42.13	178.05 182.51	182.73 187.31	0.00 0.00	0.00 0.00	0.00 0.00
4,800.00	2.62	77.00 77.00	4,095.75	43.16	186.96	191.88	0.00	0.00	0.00
4,900.00	2.62	77.00	4,895.54	44.19	191.42	196.46	0.00	0.00	0.00
5,000.00	2.62	77.00	4,995.44	45.22	195.88	201.03	0.00	0.00	0.00
5,100.00	2.62	77.00	5,095.33	46.25	200.33	205.60	0.00	0.00	0.00
5,200.00	2.62	77.00	5,195.23	47.28	204.79	210.18	0.00	0.00	0.00

## Scientific Drilling International, Inc.

Planning Report

Database: Company: Project: Rockies Compass Server Petroglyph Operating Co. Inc. Duchesne County, UT NAD83

 Site:
 UTE Tribal 30-05

 Well:
 UT 30-05

 Wellbore:
 Wellbore #1

 Design:
 Plan #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well UT 30-05

WELL @ 6164.00ft (Original Well Elev)
WELL @ 6164.00ft (Original Well Elev)

True

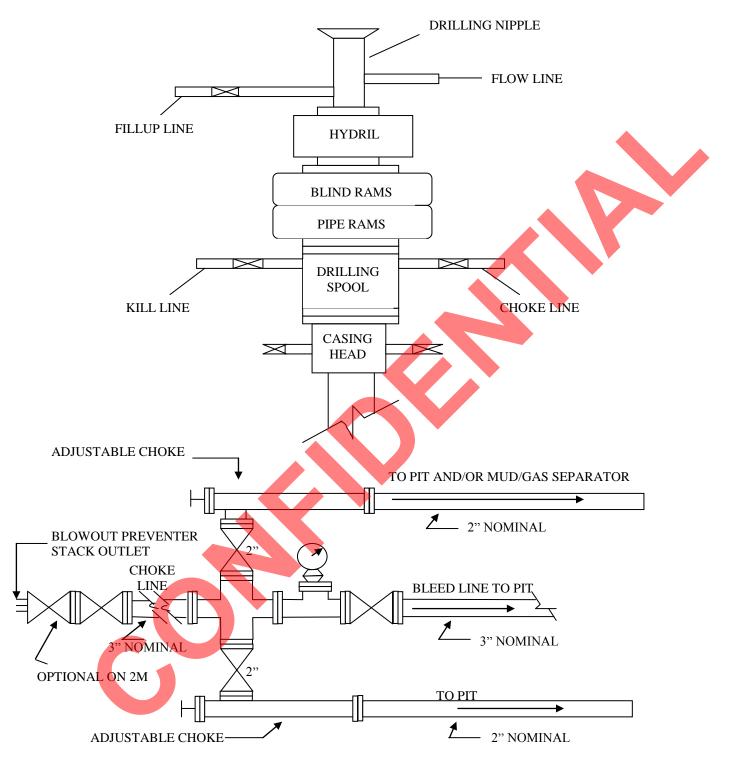
Minimum Curvature

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,300.00	2.62	77.00	5,295.12	48.31	209.25	214.75	0.00	0.00	0.00
5,400.00 5,500.00	2.62 2.62	77.00 77.00	5,395.02 5,494.91	49.33 50.36	213.70 218.16	219.33 223.90	0.00 0.00	0.00 0.00	0.00 0.00
5,600.00 5,700.00 5,719.32	2.62 2.62 2.62	77.00 77.00 77.00	5,594.81 5,694.70 5,714.00	51.39 52.42 52.62	222.62 227.07 227.94	228.47 233.05 233.93	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00

Design Targets								
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing Easting (usft)	Latitude	Longitude
UT 30-05 Target - plan hits target cen - Point	0.00 ter	0.00	5,714.00	52.62	227.94	7,178,141.28 1,984,055.14	40° 1' 9.780 N	110° 16' 22.550 W



## SCHEMATIC DIAGRAM OF 2000 PSI BOP STACK



PETROGLYPH OPERATING CO., INC. P.O. BOX 607 ROOSEVELT, UTAH 84066

August 5, 2011

Ms. Diana Mason State of Utah Division of Oil, Gas & Mining 1594 West North Temple, Suite 1210 P.O. Box 145801 Salt Lake City, UT 84114-5801

Re: Directional Drilling R649-3-11

Ute Tribal 30-05: 2042' FNL & 353' FWL, SW/NW (Surface)

1990' FNL & 580' FWL, SW/NW (Bottom Hole)

Sec. 30, T5S, R3W, U.S.B.&M.,

Duchesne County, Utah

Dear Ms. Mason.

Pursuant to the filing of Petroglyph Operating Co., Inc.'s Application for Permit to Drill regarding the above referenced well on August 5, 2011, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to the Exception to Location and Siting of Wells.

- The Ute Tribal 30-05 is located within the Antelope Creek Unit Area.
- Petroglyph Operating Co., Inc. is permitting this well as a directional well in order to minimize surface disturbance. Locating the well at the surface location and directionally drilling from this location, Petroglyph Operating Co., Inc. will be able to utilize the existing road and pipelines in the area.
- Furthermore, Petroglyph Operating Co., Inc. hereby certifies that it is the sole working interest owner within 460 feet of the entire directional well bore.

Therefore, based on the above stated information, Petroglyph Operating Co., Inc. requests the permit be granted pursuant to R649-3-11.

Respectfully Submitted,

Ed Trotter, Agent P.O. Box 1910 Vernal, UT 84078 Phone: (435)789-4120

Fax: (435)789-1420

E-mail: edtrotter@easilink.com

### Certification

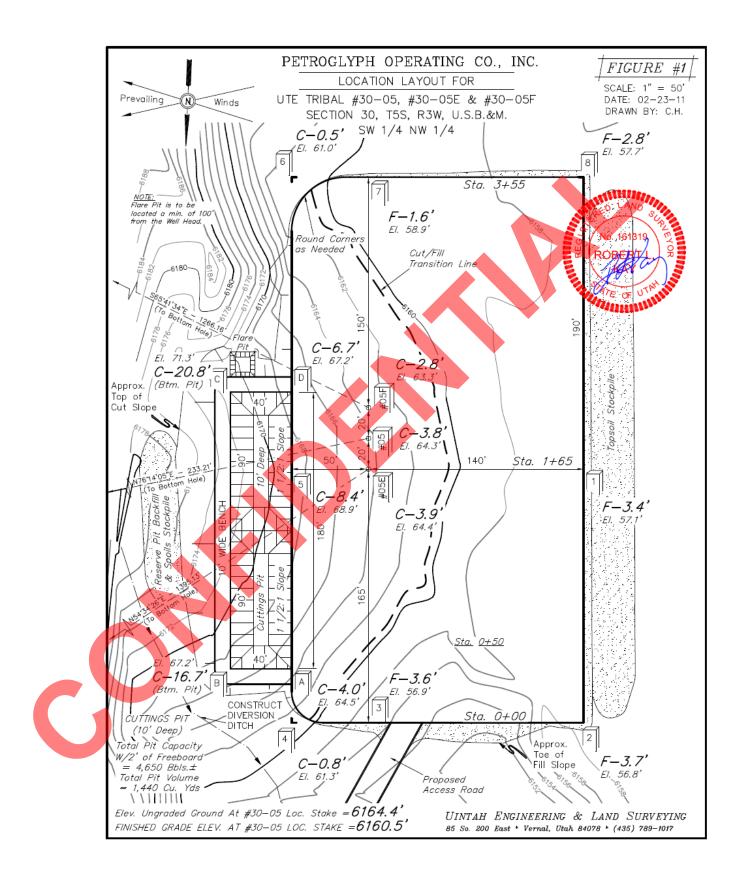
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions that presently exist; that the statements made in the Plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Petroglyph Operating Co., Inc. and its contractors and subcontractors in conformity with this Plan and the terms and conditions under which it is approved.

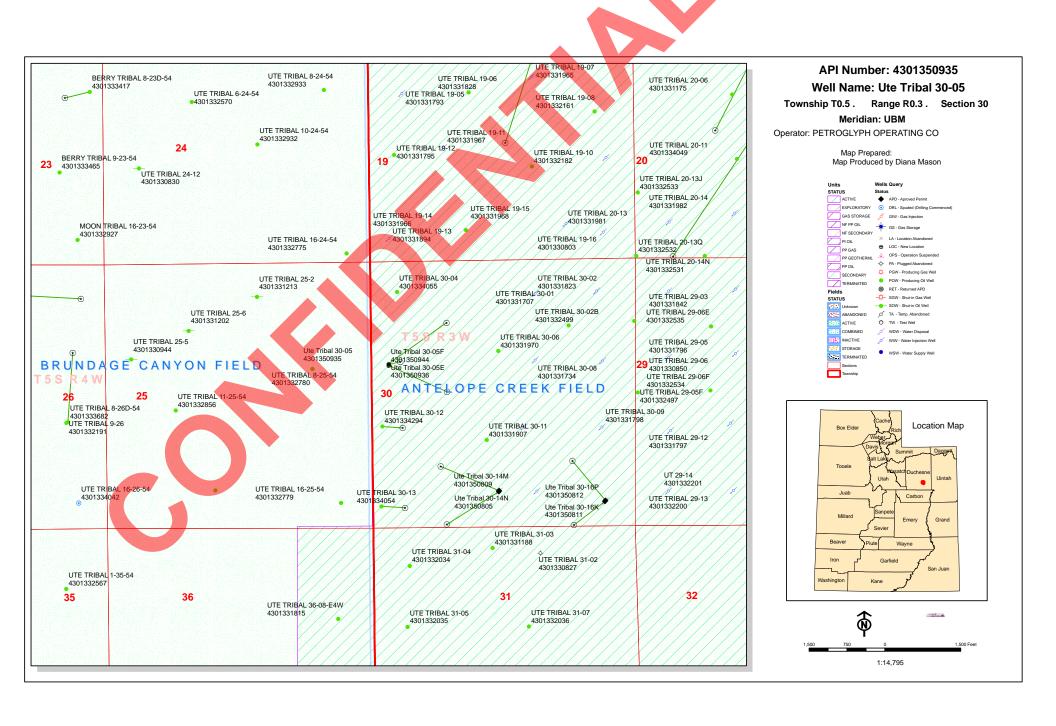
Please be advised that Petroglyph Operating Co., Inc. is considered to be the operator of the UTE TRIBAL 30-05 Well, located in the SW/NW of Section 30, T5S, R3W, Duchesne County, Utah; Lease #14-20-H62-3519; and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond Coverage is provided under Bond #BO 4556.

Date Ed Trotter, as Agent for

Ed Trotter, as Agent for Petroglyph Operating Co., Inc.

Document8 1





# WORKSHEET APPLICATION FOR PERMIT TO DRILL

**APD RECEIVED:** 8/30/2011 **API NO. ASSIGNED:** 43013509350000

WELL NAME: Ute Tribal 30-05

**OPERATOR:** PETROGLYPH OPERATING CO (N3800) **PHONE NUMBER:** 435 789-4120

**CONTACT:** Ed Trotter

PROPOSED LOCATION: SWNW 30 050S 030W Permit Tech Review:

SURFACE: 2042 FNL 0353 FWL Engineering Review:

BOTTOM: 1990 FNL 0580 FWL Geology Review:

COUNTY: DUCHESNE

UTM SURF EASTINGS: 562045.00

FIELD NAME: ANTELOPE CREEK

**LATITUDE:** 40.01920

LEASE TYPE: 2 - Indian

**LEASE NUMBER:** 14-20-H62-3519

**SURFACE OWNER:** 2 - Indian

PROPOSED PRODUCING FORMATION(S): CASTLE PEAK

COALBED METHANE: NO

**LONGITUDE:** -110.27295 **NORTHINGS:** 4429932.00

#### **RECEIVED AND/OR REVIEWED:**

PLAT

**✓ Bond:** INDIAN - 4556

Potash

Oil Shale 190-5

Oil Shale 190-3

Oil Shale 190-13

✓ Water Permit: 43-8342

RDCC Review:

Fee Surface Agreement

Intent to Commingle

Commingling Approved

**LOCATION AND SITING:** 

R649-2-3.

Unit: ANTELOPE CREEK

R649-3-2. General

R649-3-3. Exception

Drilling Unit

**Board Cause No:** Cause 214-2

Effective Date: 6/9/2000

Siting: Suspends General Siting

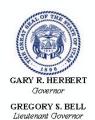
✓ R649-3-11. Directional Drill

**Comments:** Presite Completed

**Stipulations:** 4 - Federal Approval - dmason

15 - Directional - dmason

API Well No: 43013509350000



# State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

# **Permit To Drill**

\*\*\*\*\*

Well Name: Ute Tribal 30-05 API Well Number: 43013509350000 Lease Number: 14-20-H62-3519

**Surface Owner:** INDIAN **Approval Date:** 9/8/2011

#### **Issued to:**

PETROGLYPH OPERATING CO, 960 Broadway Ave, Ste 500, Bosie, ID 83703

#### **Authority:**

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 214-2. The expected producing formation or pool is the CASTLE PEAK Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

#### **Duration:**

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

#### General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

#### **Conditions of Approval:**

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

#### **Notification Requirements:**

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

 Within 24 hours following the spudding of the well – contact Carol Daniels at 801-538-5284 (please leave a voicemail message if not available) OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at http://oilgas.ogm.utah.gov

#### **Reporting Requirements:**

API Well No: 43013509350000

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) due within 5 days of spudding the well
- Monthly Status Report (Form 9) due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) due prior to implementation
- Written Notice of Emergency Changes (Form 9) due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) due prior to implementation
- Report of Water Encountered (Form 7) due within 30 days after completion
- Well Completion Report (Form 8) due within 30 days after completion or plugging

**Approved By:** 

For John Rogers Associate Director, Oil & Gas

# RECEIVED

FORM APPROVED OMB No. 1004-0137

**UNITED STATES** DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEM

Expires July 31, 2010

**UTE INDIAN TRIBE** 

APPLICATION FOR PERMIT TO DRILL OR REENTÉR

5. Lease Serial No. 14-20-H62-3519

1	H		A 1 4 0 1	10- 0	<u></u>	
12	Ì	-6.	If Indian,	Allottee	or Tribe	Name

1a. Type of Work: X DRILL			7. If Unit or CA Agreement, Name and No. 14-20-H62-4650		
1b. Type of Well: X Oil Well Gas Well Other	ltiple Zone	8. Lease Name and Well No. UTE TRIBAL 30-05			
2. Name of Operator PETROGLYPH OPERATING CO., I	NC.		9. API Well No.	135	
3a. Address P.O. BOX 1910 VERNAL, UT 84078	3b. Phone No. (Include area code) (435)789-4120		10. Field and Pool, or Exploratory  ANTELOPE CREEK		
At surface 2042' FNL, 353' FWL, SW/N Bottom Hole: 1990' FNL, 580' FWL, SW/N	NW, SEC. 30, T5S, R3W	1	11. Sec., T., R., M., or Bi	•	
At proposed prod. Zone	confide		U.S.B.&M.		
14. Distance in miles and direction from nearest town or post o 19.9 MILES SOUTHWEST OF MY	IIIce*		12. County or Parish <b>DUCHESNE</b>	13. State UTAH	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. Unit line, if any)	16. No. of Acres in lease 640	17. Spacii	ng Unit dedicated to this w	ell	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.  See Topo Man "C"	19. Proposed Depth 5714' TVD 5719' TMD		BIA Bond No. on file BO 4556		
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6160.5 FEET GRADED GROUND	22. Approximate date work will start*  UPON APPROVAL		23. Estimated duration 10 DAYS		
The following, completed in accordance with the requirem	24. Attachments ents of Onshore Oil and Gas Order No. 1.	shall be attac	hed to this form:	· · · · · · · · · · · · · · · · · · ·	
<ol> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on National Fores SUPO shall be filed with the appropriate Forest Service</li> </ol>	4. Bond to cover the (see Item 20 a st System Lands, the 5. Operator certification of the state	e operations bove).	unless covered by an existination and/or plans as may be		
25. Signature Let Liette	Name (Printed/Typed) Ed Trotter		Date Au	gust 5, 2011	
Title Agent					
Approved by (Signature)	Name (Printed/Typed)  Jerry Kenczka		Date	FEB 1 3 2012	
Title Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD	OFFICE			
Application approval does not warrant or certify that the application thereon. Conditions of Approval, if any, are attached.	nt holds legal or equitable title to those righ  CONDITIONS OF APPROVAL	1		tle the applicant to	

\*(Contiued on page 2)

FEB 27 2012

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any lesson knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

# 170 South 500 East

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT **VERNAL FIELD OFFICE**

**VERNAL. UT 84078** 

(435) 781-4400



## CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: Well No:

API No:

Petroglyph Operating CO., Inc

Ute Tribal 30-05

43-013-50935

Location: Lease No: Agreement: SWNW, Sec. 30, T5S, R3W

14-20-H62-3519 **Antelope Creek** 

**OFFICE NUMBER:** 

(435) 781-4400

**OFFICE FAX NUMBER: (435) 781-3420** 

# A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.

## NOTIFICATION REQUIREMENTS

Construction Activity (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	-	The Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist shall be notified at least 48 hours in advance of any construction activity. The Ute Tribal office is open Monday through Thursday.
Construction Completion (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	-	Upon completion of the pertinent APD/ROW construction, notify the Ute Tribe Energy & Minerals Dept. for a Tribal Technician to verify the Affidavit of Completion. Notify the BLM Environmental Scientist prior to moving on the drilling rig.
Spud Notice (Notify BLM Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify BLM Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings to:blm_ut_vn_opreport@blm.gov.
BOP & Related Equipment Tests (Notify BLM Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify BLM Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

Page 2 of 7 Well: Ute Tribal 30-05 2/9/2012

# SURFACE USE PROGRAM CONDITIONS OF APPROVAL (COAs)

- All areas of disturbance (including surface pipelines) must have appropriate surface use agreements or approvals in place with the proper owner and/or agency before such action is started.
- The conditions as set forth by those owners and/or agencies.

#### **General Conditions of Approval:**

- A <u>30</u> foot corridor right-of-way shall be approved. Upon completion of each pipeline in corridor, they shall be identified and filed with the Ute Tribe.
- A qualified Archaeologist accompanied by a Tribal Technician will monitor trenching construction of pipeline.
- The Ute Tribe Energy & Minerals Department and the BLM will be notified, in writing 48 hours prior to construction of pipeline.
- Construction Notice shall be given to the department on the Ute Tribe workdays, which are Monday through Thursday. The Company understands that they may be responsible for costs incurred by the Ute Tribe after hours.
- The Company shall inform contractors to maintain construction of pipelines within the approved ROW's.
- The Company shall assure the Ute Tribe that "ALL CONTRACTORS, INCLUDING SUB-CONTRACTORS, LEASING CONTRACTORS, AND ETC." have acquired a current and valid Ute Tribal Business License and have "Access Permits" prior to construction, and will have these permits in all vehicles at all times.
- You are hereby notified that working under the "umbrella" of a company does not allow you to be in the field, and can be subject to those fines of the Ute Tribe Severance Tax Ordinance.
- Any deviation of submitted APD's and ROW applications the Companies will notify the Ute Tribe and BIA in writing and will receive written authorization of any such change with appropriate authorization.
- The Company will implement "Safety and Emergency Plan." The Company's safety director will ensure its compliance.
- All Company employees and/or authorized personnel (sub-contractors) in the field will have approved applicable APD's and/or ROW permits/authorizations on their person(s) during all phases of construction.
- All vehicular traffic, personnel movement, construction/restoration operations shall be confined to the area examined and approved, and to the existing roadways and/or evaluated access routes.

Page 3 of 7 Well: Ute Tribal 30-05 2/9/2012

- All personnel will refrain from collecting artifacts, any paleontological fossils, and from disturbing any significant cultural resources in the area.
- The personnel from the Ute Tribe Energy & Minerals Department will be notified should cultural remains from subsurface deposits be exposed or identified during construction. All construction will cease.
- All mitigative stipulations contained in the Bureau of Indian Affairs Site Specific Environmental Assessment (EA) will be strictly adhered.
- Upon completion of Application for Corridor Right-Way, the company will notify the Ute Tribe Energy & Minerals Department, so that a Tribal Technician can verify Affidavit of Completion.

Page 4 of 7 Well: Ute Tribal 30-05 2/9/2012

# DOWNHOLE PROGRAM CONDITIONS OF APPROVAL (COAs)

#### SITE SPECIFIC DOWNHOLE COAs:

- Gamma Ray Log shall be run from Total Depth to Surface.
- To effectively protect useable water, cement for the production casing is required to be brought at a minimum 200 feet above the surface casing shoe.
- CBL will be run from PBTD to TOC for the production casing.
- Variances shall be granted for the air drilling of the Surface hole from Onshore Order 2, Subsection III as listed below:
  - a. Blooie line discharge to be approximately 75 feet from well bore and securely anchored.
  - o b. A properly lubricated and maintained diverter bowl instead of a rotating head.
  - c. Compressors will be located as close as reasonable to the opposite direction from the blooie line and 75 feet from the well bore.
  - o d. An air mist system will be used instead of an automatic igniter on the blooie line.
  - o e. A mister will be used instead of deduster equipment at the end of the blooie line.
  - o f. Due to the location of the flare pit two "T's" will be utilized on the blooie line.
- Operator will have on location sufficient water to be used as a "mud-kill medium" during the air drilling of the surface hole prior to the well spud.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

#### DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the
  daily drilling report. Components shall be operated and tested as required by Onshore Oil &
  Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be
  performed by a test pump with a chart recorder and NOT by the rig pumps. Test shall be
  reported in the driller's log.

- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- Cement baskets shall not be run on surface casing.
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water
  is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM
  Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM,
   Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum
   Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- Please submit an electronic copy of all other logs run on this well in LAS format to BLM\_UT\_VN\_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

Page 6 of 7 Well: Ute Tribal 30-05 2/9/2012

#### **OPERATING REQUIREMENT REMINDERS:**

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- Should the well be successfully completed for production, the BLM Vernal Field office must be
  notified when it is placed in a producing status. Such notification will be by written
  communication and must be received in this office by not later than the fifth business day
  following the date on which the well is placed on production. The notification shall provide, as a
  minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location (¼¼, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - o The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - o The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - O Unit agreement and/or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will
  be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be
  reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major
  Events" will be reported in writing within 15 days. "Minor Events" will be reported on the
  Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if

Page 7 of 7 Well: Ute Tribal 30-05 2/9/2012

performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted
  to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs
  first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be
  adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively
  sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover
  equipment shall be removed from a well to be placed in a suspended status without prior
  approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30
  days, prior approval of the BLM Vernal Field Office shall be obtained and notification given
  before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

Sundry Number: 24382 API Well Number: 43013509350000

STATE OF UTAH		FORM 9		
DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING			5.LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-3519	
SUNDRY NOTICES AND REPORTS ON WELLS		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE		
Do not use this form for proposals to drill new wells, significantly deepen exicurrent bottom-hole depth, reenter plugged wells, or to drill horizontal laterals FOR PERMIT TO DRILL form for such proposals.			7.UNIT or CA AGREEMENT NAME: ANTELOPE CREEK	
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: UTE TRIBAL 30-05			
2. NAME OF OPERATOR: PETROGLYPH OPERATING (	20		<b>9. API NUMBER:</b> 43013509350000	
3. ADDRESS OF OPERATOR: 960 Broadway Ave, Ste 500	9. FIELD and POOL or WILDCAT: ANTELOPE CREEK			
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2042 FNL 0353 FWL			COUNTY: DUCHESNE	
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 30 Township: 05.0S Range: 03.0W Meridian: U		STATE: UTAH		
11. CHEC	K APPROPRIATE BOXES TO INDICATE	NATURE OF NOTICE, REPOR	RT, OR OTHER DATA	
TYPE OF SUBMISSION TYPE OF ACTION				
	ACIDIZE [	ALTER CASING	CASING REPAIR	
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME	
Approximate date work will start.	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE	
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN [	FRACTURE TREAT	☐ NEW CONSTRUCTION	
3/28/2012	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK	
	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION	
SPUD REPORT Date of Spud:		_	TEMPORARY ABANDON	
	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL		
DRILLING REPORT	L TUBING REPAIR	UVENT OR FLARE	☐ WATER DISPOSAL ☐	
Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION	
	WILDCAT WELL DETERMINATION	OTHER	OTHER:   Increased Well Head Spacing	
In order to facilita increased the wo referenced above a Three being drilled provide enough ro wells for us. The additional surface following: 2045' Fl	completed operations. Clearly show all the the available drill rig, Petro ell head spacing from 20' to 2 and others on the same location the same well pad. The open for the drilling rig we have revised spacing will not require area. The new location of the NL, 353' FWL SWNW Sec. 30, tah. Please see the attached in	oglyph Operating has 13' between the well on. This well is One of riginal spacing did not be hired to drill these ire us to disturb any he well head is the T5S, R3W Duchesne	Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY April 04, 2012	
NAME (PLEASE PRINT) Rodrigo Jurado	<b>PHONE NUMBE</b> 435 722-5302	R TITLE Regulatory & Compliance S	рс	
SIGNATURE N/A		<b>DATE</b> 4/3/2012		

Sundry Number: 24382 API Well Number: 43013509350000

# PETROGLYPH OPERATING CO., INC.

UTE TRIBAL #30-05, #30-05E & #30-05F

LOCATED IN DUCHESNE COUNTY, UTAH SECTION 30, T5S, R3W, U.S.B.&M.

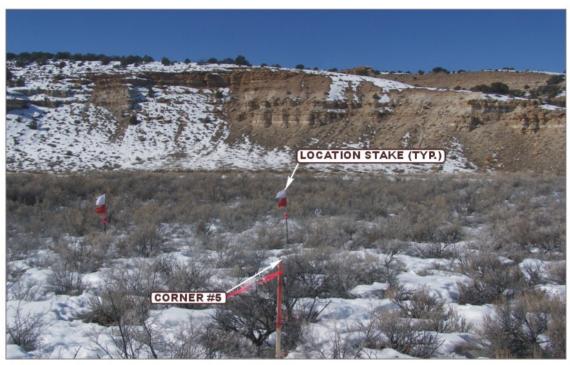


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKES

CAMERA ANGLE: WESTERLY

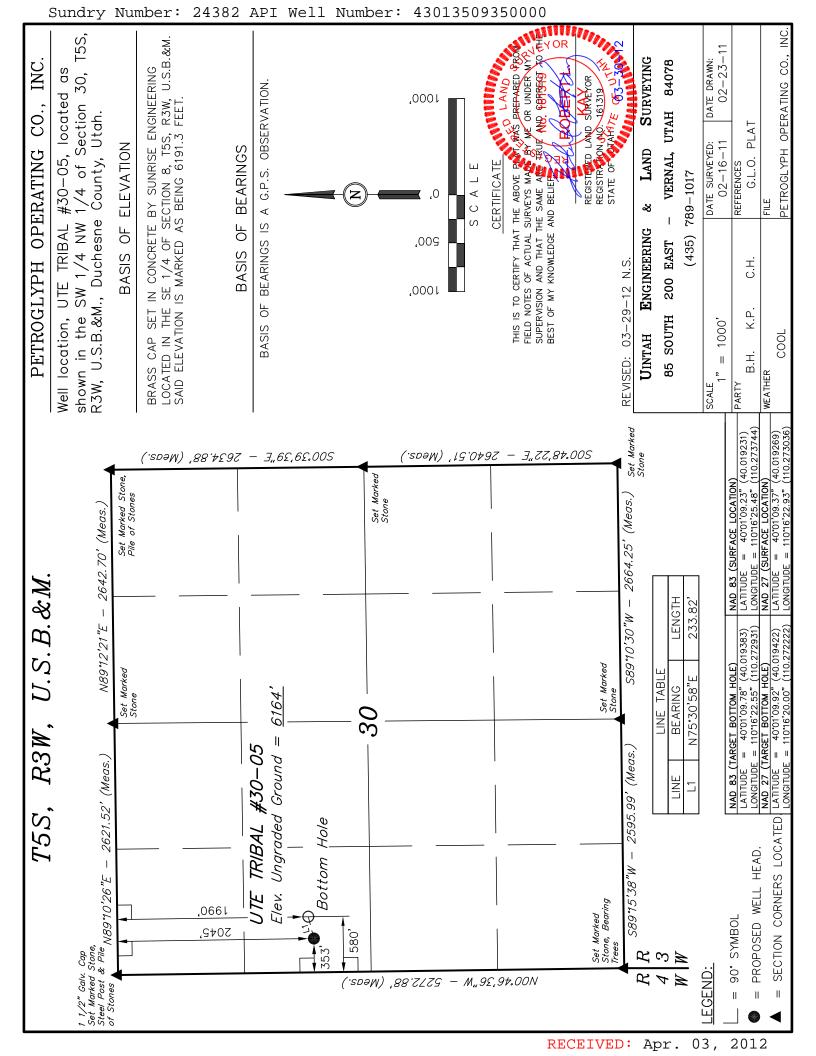


PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

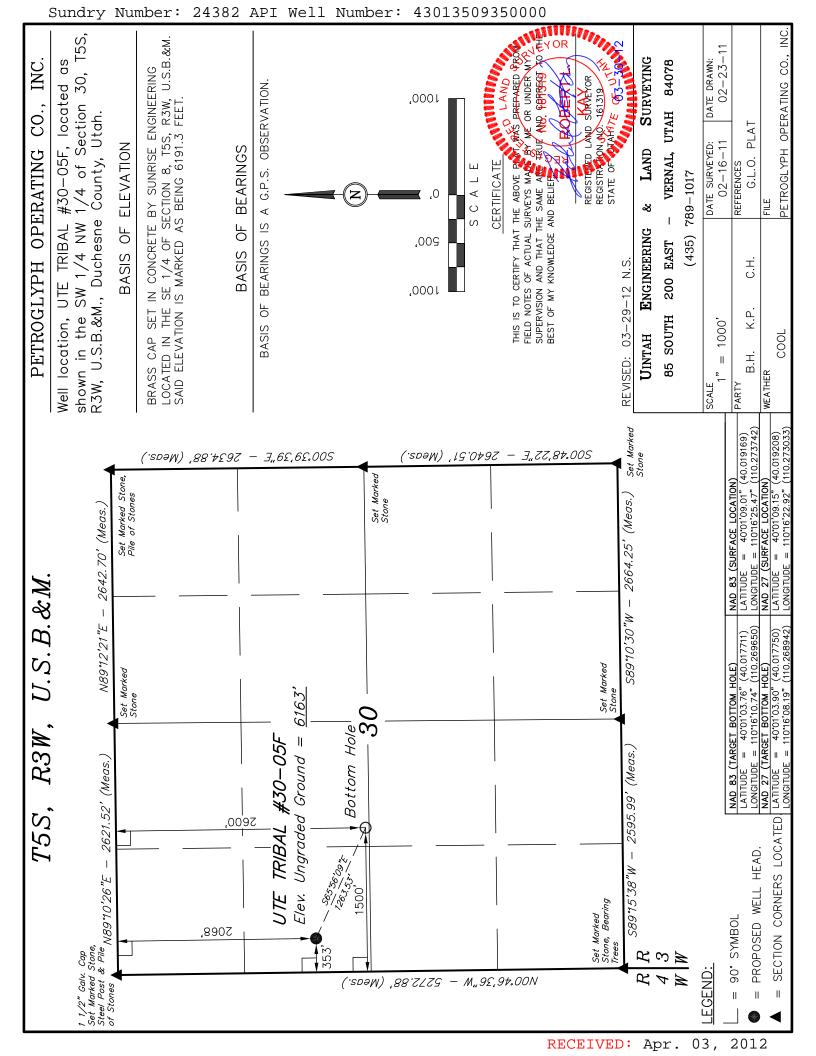
CAMERA ANGLE: SOUTHERLY



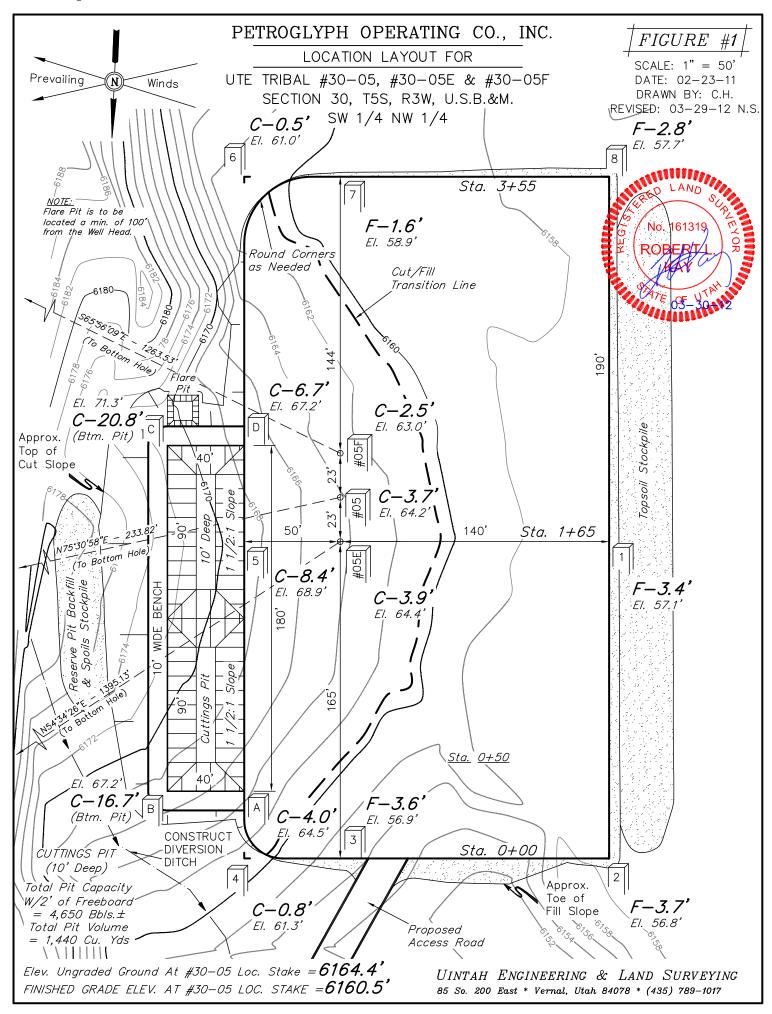
LOCATION	03	O8 DAY	11 YEAR	рното
TAKEN BY: B.H.	DRAWN BY: S.F.	RE	VISED:0	



Sundry 24382 API Well Number: 43013509350000 Number: PETROGLYPH OPERATING CO., INC. T5S, LOCATED IN THE SE 1/4 OF SECTION 8, T5S, R3W, U.S.B.&M. SAID ELEVATION IS MARKED AS BEING 6191.3 FEET. 02-23-11 INC. SURVEYING FIELD NOTES OF ACTUAL SURVEYS MACE OF WE OR UNDER WE SUPERVISION AND THAT THE SAME AND THE GROOT BEST OF MY KNOWLEDGE AND PERFORM VERNAL, UTAH 84078 DATE DRAWN: IN CONCRETE BY SUNRISE ENGINEERING AND B HAM shown in the SW 1/4 NW 1/4 of Section 30, #30-05E, located BASIS OF BEARINGS IS A G.P.S. OBSERVATION. ON MO. 161319 1000, CO., R3W, U.S.B.&M., Duchesne County, Utah. G.L.O. PLAT BASIS OF ELEVATION DATE SURVEYED: 02-16-11 PETROGLYPH OPERATING LAND BEARINGS CERTIFICATE REFERENCES STATE OF 789-1017 CACZ ઝ Well location, UTE TRIBAL BASIS OF ENGINEERING (435),009 200 EAST C.H. 1000, Ж. П. 85 SOUTH = 10001000 UINTAH BRASS CAP В.Н WEATHER SCALE PARTY Set Marked Stone NAD 83 (SURFACE LOCATION)
LATITUDE = 40'01'09.46" (40.019294)
LONGINDE = 110"6'25.49" (10.273747)
NAD 27 (SURFACE LOCATION)
LATITUDE = 40'01'09.60" (40.019333) ONGITUDE = 110'16'22.94" (110.273039 // (SDƏW) ,19<sup>.</sup>0+9Z — J<u>.</u>77,8**+.**00S 5634.88' (Meds.) 3,,6£,6£.00S Set Marked Stone Set Marked Stone, Pile of Stones — 2664.25' (Meas.) 2642.70' (Meas.) T5S, R3W, U.S.B.&M. 1 N.,02,01.68S N89°12'21"E LATITUDE = 40'01'17.30" (40.021472) LONGITUDE = 110'16'10.73" (110.269647) Set Marked Stone NAD 83 (TARGET BOTTOM HOLE) NAD 27 (TARGET BOTTOM HOLE) LATITUDE = 40.01'17.44" (40.0 Set Marked Stone Elev. Ungraded Ground = <u>6164'</u> & Bottom Hole TRIBAL #30-05E S89°15'38"W — 2595.99' (Meas., 2621.52' (Meas.) ONGITUDE 1520, SECTION CORNERS LOCATED. PROPOSED WELL HEAD. ١ 1 1/2" Galv. Cap Set Marked Stone, Steel Post & Pile N89 10 26 "E of Stones 🛦 1500, Set Marked Stone, Bearing Trees 90. SYMBOL ,707 352 Rက LEGEND 2272.88° (Meds.) - M., 95, 97.00N II П



Sundry Number: 24382 API Well Number: 43013509350000



Sundry Number: 24382 API Well Number: 43013509350000 PETROGLYPH OPERATING CO., INC. FIGURE #2 20, TYPICAL CROSS SECTIONS FOR X-Section Ш Scale UTE TRIBAL #30-05, #30-05E & #30-05F 1" = 50'SECTION 30, T5S, R3W, U.S.B.&M. DATE: 02-23-11 SW 1/4 NW 1/4 DRAWN BY: C.H. Preconstruction Grade 50' 140 Finish Grade STA. 3+55 No. 16131 140' 40' 50' LOCATION STAKE STA. 1+65 10' 40' 50' 140'  $Slope = 1 \ 1/2:1$ (Typ.) STA. 0+50 50' 140' FILL STA. 0+00 NOTE: APPROXIMATE ACREAGES Topsoil should not be WELL SITE DISTURBANCE =  $\pm$  3.447 ACRES \* NOTE: Stripped Below Finished ACCESS ROAD DISTURBANCE =  $\pm$  0.419 ACRES FILL QUANTITY INCLUDES Grade on Substructure Area. PIPELINE DISTURBANCE =  $\pm 1.021$  ACRES 5% FOR COMPACTION  $TOTAL = \pm 4.887 ACRES$ EXCESS MATERIAL 4,070 Cu. Yds. APPROXIMATE YARDAGES Topsoil & Pit Backfill 4,070 Cu. Yds. (1/2 Pit Vol.) (12") Topsoil Stripping = 3,350 Cu. Yds. EXCESS UNBALANCE O Cu. Yds. = *7,230* Cu. Yds. Remaining Location

TOTAL CUT

FILL

*10,580* CU.YDS.

6,510 CU.YDS.

85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

UINTAH ENGINEERING & LAND SURVEYING

(After Interim Rehabilitation)

Sundry Number: 24382 API Well Number: 43013509350000 PETROGLYPH OPERATING CO., INC. FIGURETYPICAL RIG LAYOUT FOR SCALE: 1" = 50UTE TRIBAL #30-05, #30-05E & #30-05F DATE: 02-23-11 DRAWN BY: C.H. SECTION 30, T5S, R3W, U.S.B.&M. REVISED: 03-29-12 N.S. SW 1/4 NW 1/4 No. 161319 NOTE: Flare Pit is to be located a min. of 100' from the Well Head. 190, Flare PIPE RACKS 40 DOG HOUSE 90, 50' 140' 10, TRAILER WATER BENCH 80, MUD PUMP TOILET [ MUD SHED <u>,</u> Pit HOPPER Cuttings 90, POWER **TOOLS** FUEL 40 STORAGE TANK CUTTINGS PIT (10' Deep) Total Pit Capacity W/2' of Freeboard = 4,650 Bb/s.± Proposed Total Pit Volume Access Road = 1,440 Cu. Yds

UINTAH ENGINEERING & LAND SURVEYING 85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

Sundry Number: 24382 API Well Number: 43013509350000 NOO°46'36"W - 5272.88' (Meas.) 1 1/2" Galv. Cap Set Marked Stone, Steel Post & Pile of Stones  $\mathcal{R} \otimes \mathcal{P}$ Section Line SW Cor. Sec. 30 Set Marked Stone, Bearing Trees TribalUteExist. Roa Wells 000 Pit 5+21.31₽ :-3+28.081+34.23 END OF PROPOSED ROAD RICHT-OF-WAY STA. 6+07.90 (At Edge of Surface Use Area) BEGINNING OF PROPOSED ROAD RIGHT-OF-WAY STA. 0+00 Contains 3.447 SURFACE USE AREA At Existing Road) TRIBAL B Acres #30-05. #30-05F TribalUteN89°10'26"E -MN SW 1/4 1/16 Section Line BEGINNING AT A POINT IN THE NW 1/4 NW 1/4 OF SECTION 30, T5S, R3W, U.S.B.&M. WHICH BEARS S21°55'09"E 1309.26' FROM THE NORTHWEST CORNER OF SAID SECTION 30, THENCE S13°51'19"E 134.23'; THENCE S07°27'10"W 193.84'; THENCE S23'14'18"W 193.23'; THENCE S27'06'07"W 86.59' TO A POINT IN THE SW 1/4 NW 1/4 OF SAID SECTION 30 WHICH BEARS S11°58'32"E 1831.65' FROM THE NORTHWEST CORNER OF SAID SECTION 30. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 0.419 ACRES MORE OR LESS. 2621.52' (Meas.) END OF ROAD STA. 6+07.90 BEARS S11°58'32"E 1831.65' FROM THE NORTHWEST CORNER OF SECTION 30, T5S, R3W, U.S.B.&M. A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE. BEGINNING OF ROAD STA. 0+00 BEARS S21°55'09"E 1309.26' FROM THE NORTHWEST CORNER OF SECTION 30, T5S, R3W, U.S.B.&M.  $\frac{1}{4}$ BEGINNING AT A POINT IN THE SW 1/4 NW 1/4 OF SECTION 30, T5S, R3W, U.S.B.&M. WHICH BEARS S11\*58'32"E 1831.65' FROM THE NORTHWEST CORNER OF SAID SECTION 30, THENCE N87\*54'10"E 141.40'; THENCE S02\*05'50"E 455.00'; THENCE S87\*54'10"W 330.00'; THENCE N02\*05'50"W 455.00'; THENCE N87\*54'10"E 188.60' TO THE POINT OF BEGINNING. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 3.447 ACRES MORE OR LESS. ROAD SURFACE RIGHT-OF-WAY DESCRIPTION USE AREA 1/4 Section Line DESCRIPTION 1/16 Section Line Set Marked Stone Sec. 1/4 Section Line 30 6 5 5 N87°54'10"E DIRECTION S87°54'10"W S02°05'50"E S13°51'19"E S23°14'18"W 27°06'07"W Section Line SE 1/4 SECTION CORNERS LOCATED. TABLE 193.23 193.84 455.00<sup>2</sup> 86.59 141.40' 134.23' ENGTH OCATION THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PARTICLD NOTES OF ACTUAL SURVEYS MADE BY ME OF SUPERVISION AND THAT THE SAME ARE TRUE AND GO THE BEST OF MY KNOWLEDGE AND BELIEF. PARTY LOCATED IN SECTION 30, T5S, R3W, U.S.B.&M., DUCHESNE COUNTY, UTAH ROAD PETROGLYPH OPERATING CO., COOL В.Н. Н. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. PROPERTY OWNER For UTE TRIBAL #30-05, UINTAH ENGINEERING & RIGHT-OF-WAY LENGTHS #30-05E & #30-05F UTE TRIBAL LANDS 85 SOUTH - 200 EAST • (435) 789-1017 300' Х. Р. BASIS OF BEARINGS RIGHT-OF-WAY SURFACE 150 VERNAL, С.Н. CERTIFICATE SCALE 607.90 UTAH - 84078 FEET REFERENCES G.L.O. 02-23-11  $\Omega$ TION NO. 161319 LAND SURVEYING 0 **ACRES** 0.419 USE PLAT 300' RODS INC. 36.84 AREA

PETROGLYPH OPERATING CO., INC.

UTE TRIBAL #30-05, #30-05E & #30-05F

ROAD RIGHT-OF-WAY & SURFACE USE AREA

SECTION 30, T5S, R3W, U.S.B.&M.

#### TOTAL ROAD RIGHT-OF-WAY ON UTE TRIBAL LANDS

TOTAL LENGTH OF RIGHT-OF-WAY IS 607.90' OR 0.115 MILES. WIDTH OF RIGHT-OF-WAY IS 30' (15' PERPENDICULAR ON EACH SIDE OF THE CENTERLINE). CONTAINS 0.419 ACRES MORE OR LESS.

#### ENGINEER'S AFFIDAVIT

STATE OF UTAH )

COUNTY OF UINTAH )

ROBERT L. KAY, BEING FIRST DULY SWORN DEPOSES AND STATES THAT HE IS THE REGISTERED LAND SURVEYOR, FOR PETROGLYPH OPERATING CO., INC., THAT THESE SURVEYS WERE MADE BY HIM (OR UNDER THE INTERVISION): THAT HE HAS EXAMINED THE FIELD NOTES OF THE SURVEYS OF THE SURFACE USE AREA NO ROADLY RIGHT-OF-WAY AS DESCRIBED AND SHOWN ON THIS MAP, THAT THIS MAP WAS PREPARE WINDER HIS DIRECTION FROM SAID FIELD NOTES; AND THAT SAID RIGHT-OF-WAY, 0.115 MILES IN LENGTH BEGINNING AND ENDING AS SHOWN ON THIS MAP IS ACCURATELY REPRESENTED.

ACKNOWLEDGEMENT

## APPLICANT'S CERTIFICATE

I,ED TROTTER, DO HEREBY CERTIFY THAT I AM THE AGENT FOR PETROGLYPH OPERATING CO., INC., HEREINAFTER DESIGNATED THE APPLICANT; THAT ROBERT L. KAY WHO SUBSCRIBED TO THE FOREGOING AFFIDAVIT, IS EMPLOYED BY THE APPLICANT AS A LAND SURVEYOR AND THAT HE WAS DIRECTED BY THE APPLICANT TO SURVEY THE LOCATION OF THIS SURFACE USE AREA AND ROAD RIGHT—OF—WAY, 0.115 MILES IN LENGTH BEGINNING AT STA. 0+00 AND ENDING AT STA. 6+07.90, THAT SAID SURFACE USE AREA AND ROAD RIGHT—OF—WAY ARE ACCURATELY REPRESENTED ON THIS MAP; THAT SUCH SURVEY AS REPRESENTED ON THIS MAP HAS BEEN ADOPTED BY THE APPLICANT AS THE DEFINITE LOCATION OF THE RIGHT—OF—WAY THEREBY SHOWN; AND THAT THE MAP HAS BEEN PREPARED TO BE FILED WITH THE SECRETARY OF THE INTERIOR OR HIS DULY AUTHORIZED REPRESENTATIVE AS PART OF THE APPLICATION FOR SAID RIGHT—OF—WAY TO BE GRANTED THE APPLICANT, ITS SUCCESSORS AND ASSIGNS, WITH THE RIGHT TO CONSTRUCT, MAINTAIN, AND REPAIR IMPROVEMENTS, THEREON AND THEREOVER, FOR SUCH PURPOSES, AND WITH THE FURTHER RIGHT IN THE APPLICANT, ITS SUCCESSORS AND ASSIGNS TO TRANSFER THIS RIGHT—OF—WAY BY ASSIGNMENT, GRANT, OR OTHERWISE.

APPL	ICANT		
AGE1	٧T		
TITLE			

REGISTERED LANDY SURVEY REGISTRATION NO. 161319

VERNAL, UTAH

RECEIVED: Apr. 03, 2012

Sundry Number: 24382 API Well Number: 43013509350000 K 4 B NOO°46'36"W - 5272.88' (Meas.) 1 1/2" Galv. Cap Set Marked Stone, Steel Post & Pile of Stones K & F Section Line SW Cor. Sec. 30
Set Marked
Stone, Bearing
Trees TribalP.I. 14+03.72 UteP.I. 1+01.33 Exist. Road P.I. 5+78.23 P.I. 2+94.37 Wells P.I. 4+82.18 000 P.I. 11+46.47 Pit P.I. 9+66.40 P.I. 7+65.61 BEGINNING OF PROPOSED PIPELINE RIGHT—OF—WAY STA. 0+00 At Edge of Surface Use Area) END OF PROPOSED
PIPELINE RIGHT-OF-WAY
STA. 14+82.15 (At Edge of Exist. #30—04 Pad) Road TribalUteN89°10'26"E — SW 1/4 1/16 Section Line 2621.52' (Meas.) END OF PIPELINE STA. 14+82.15 BEARS S44\*17'37"E 602.79' FROM THE NORTHWEST CORNER OF SECTION 30, T5S, R3W, U.S.B.&M. BEGINNING OF PIPELINE STA. 0+00 BEARS S10°49'58"E 1825.67' FROM THE NORTHWEST CORNER OF SECTION 30, T5S, R3W, U.S.B.&M. N13°34'33"W 200.79'; THENCE N12°38'55"W 180.07'; THENCE N07°32'10"W 257.25'; THENCE N86°26'16"E 78.43' TO A POINT IN THE NW 1/4 NW 1/4 OF SAID SECTION 30 WHICH BEARS S44°17'37"E 602.79' FROM THE NORTHWEST CORNER OF SAID SECTION 30. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 1.021 ACRES MORE OR BEGINNING AT A POINT IN THE SW 1/4 NW 1/4 OF SECTION 30, T5S, R3W, U.S.B.&M. WHICH BEARS S10\*49'58"E 1825.67' FROM THE NORTHWEST CORNER OF SAID SECTION 30, THENCE N25'38'10"E 101.33'; THENCE N23'14'26"E 193.05'; THENCE N07'09'02"E 187.80'; THENCE N22'16'17"W 96.05'; THENCE N03'56'12"E 187.37'; THENCE A 30' WIDE RIGHT—OF—WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE. 4 PIPELINE RIGHT-OF-WAY DESCRIPTION  $^{\circ}$ L3 N12°38'55"W √07°32′10″W V07°09'02"E N25°38′10″E √23°14′26″E TABLE 1/4 Section Line 257.25' 200. 96.05 193.05 LENGTH 180.07' 101.33 87.80 1/16 Section Line Set Marked Stone Sec. 1/4 Section Line SECTION CORNERS LOCATED Section SE 1/4 THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED NOTES OF ACTUAL SURVEYS MADE BY ME OF 100 SUPERVISION AND THAT THE SAME ARE TRUE AND GOVERNE BEST OF MY KNOWLEDGE AND BELIEF. PARTY SCALE PIPELINE LOCATED IN SECTION 30, T5S, R3W, U.S.B.&M., DUCHESNE COUNTY, UTAH PETROGLYPH OPERATING CO., COOL UINTAH ENGINEERING For UTE TRIBAL #30-05, #30-05E & #30-05F PROPERTY OWNER 85 SOUTH - 200 EAST • (435) 789-1017 BASIS OF BEARINGS IS A G.P.S. OBSERVATION. RIGHT-OF-300' 300' TRIBAL . o BASIS OF BEARINGS VERNAL, CERTIFICATE 150 С.Н. TRIBAL LANDS RIGHT-OF-WAY SCALE WAYZ UTAH - 84078 RÉGISTE DE LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAFF 1482.15 FEET REFERENCES LENGTHS  $\Omega$ LAND SURVEYING 02-23-11 0 1.021 4 ACRES PLAT 300  $\infty$ 89.83 RODS INC. ACYOR MOYAL

PETROGLYPH OPERATING CO., INC.

UTE TRIBAL #30-05, #30-05E & #30-05F

PIPELINE RIGHT-OF-WAY

SECTION 30, T5S, R3W, U.S.B.&M.

#### TOTAL PIPELINE RIGHT-OF-WAY ON UTE TRIBAL LANDS

TOTAL LENGTH OF RIGHT-OF-WAY IS 1482.15' OR 0.281 MILES. WIDTH OF RIGHT-OF-WAY IS 30' (15' PERPENDICULAR ON EACH SIDE OF THE CENTERLINE). CONTAINS 1.021 ACRES MORE OR LESS.

### ENGINEER'S AFFIDAVIT

STATE OF UTAH )

COUNTY OF UINTAH )

ROBERT L. KAY, BEING FIRST DULY SWORN DEPOSES AND STATES THAT HE IS THE REGISTERED LAND SURVEYOR, FOR PETROGLYPH OPERATING CO., INC. THAT THESE SURVEYS WERE MADE BY HIM (OR UNDER WILLIAMSERVISION): THAT HE HAS EXAMINED THE FIELD NOTES OF THE SURVEYS OF THE PIPELINE RIGHT—OF—WAY, AS DISCREDED AND SHOWN ON THIS MAP, THAT THIS MAP WAS PREPARED UNDER HIS DIRECTION FROM SAID FIELD NOTES; AND THAT SAID RIGHT—OF—WAY, 0.281 MILES IN LENGTH BEGINNING AND ENDING AS SHOWN ON THIS MAP IS ACCURATELY REPRESENTED.

## ACKNOWLEDGEMENT

	SUBSCRIBED	AND SWOF	N BEFORE	ME	THIS	_DAY OF		2011.	
MY COMMISSION	EXPIRES								
							NOTARY P VERNAL, U		

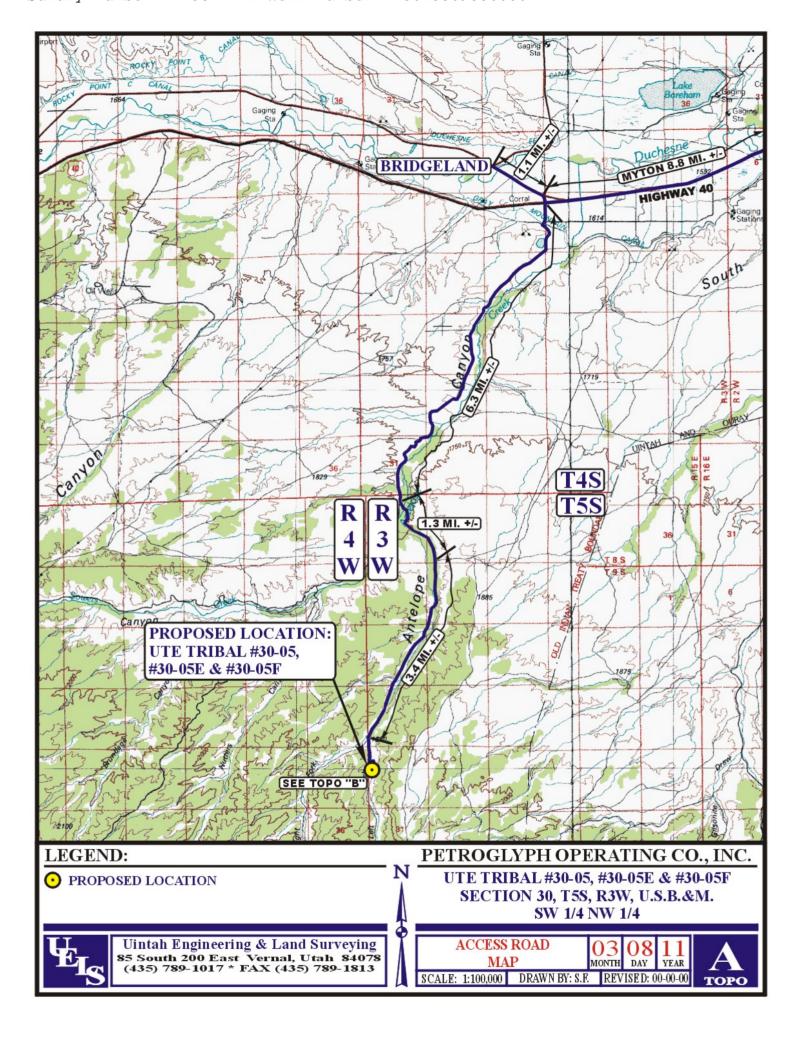
## APPLICANT'S CERTIFICATE

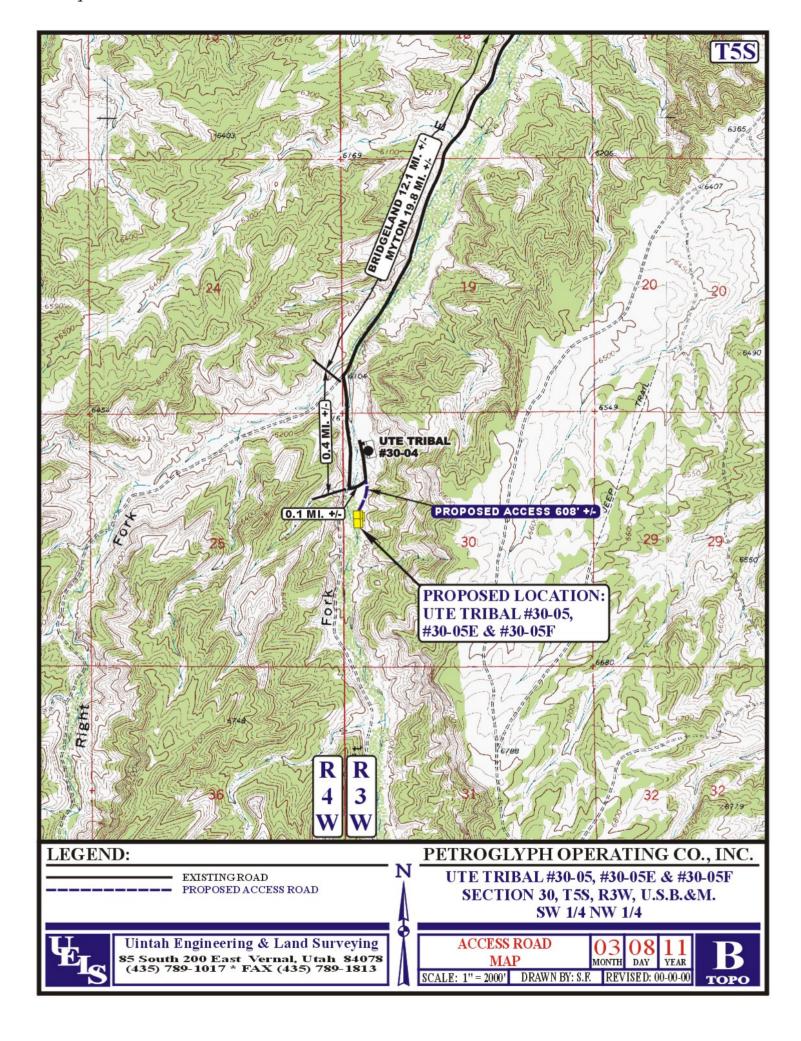
I,ED TROTTER, DO HEREBY CERTIFY THAT I AM THE AGENT FOR PETROGLYPH OPERATING CO., INC. HEREINAFTER DESIGNATED THE APPLICANT; THAT ROBERT L. KAY WHO SUBSCRIBED TO THE FOREGOING AFFIDAVIT, IS EMPLOYED BY THE APPLICANT AS A LAND SURVEYOR AND THAT HE WAS DIRECTED BY THE APPLICANT TO SURVEY THE LOCATION OF THIS PIPELINE RIGHT—OF—WAY, 0.281 MILES IN LENGTH BEGINNING AT STA. 0+00 AND ENDING AT STA. 14+82.15, THAT SAID PIPELINE RIGHT—OF—WAY IS ACCURATELY REPRESENTED ON THIS MAP; THAT SUCH SURVEY AS REPRESENTED ON THIS MAP HAS BEEN ADOPTED BY THE APPLICANT AS THE DEFINITE LOCATION OF THE RIGHT—OF—WAY THEREBY SHOWN; AND THAT THE MAP HAS BEEN PREPARED TO BE FILED WITH THE SECRETARY OF THE INTERIOR OR HIS DULY AUTHORIZED REPRESENTATIVE AS PART OF THE APPLICATION FOR SAID RIGHT—OF—WAY TO BE GRANTED THE APPLICANT, ITS SUCCESSORS AND ASSIGNS, WITH THE RIGHT TO CONSTRUCT, MAINTAIN, AND REPAIR IMPROVEMENTS, THEREON AND THEREOVER, FOR SUCH PURPOSES, AND WITH THE FURTHER RIGHT IN THE APPLICANT, ITS SUCCESSORS AND ASSIGNS TO TRANSFER THIS RIGHT—OF—WAY BY ASSIGNMENT, GRANT, OR OTHERWISE.

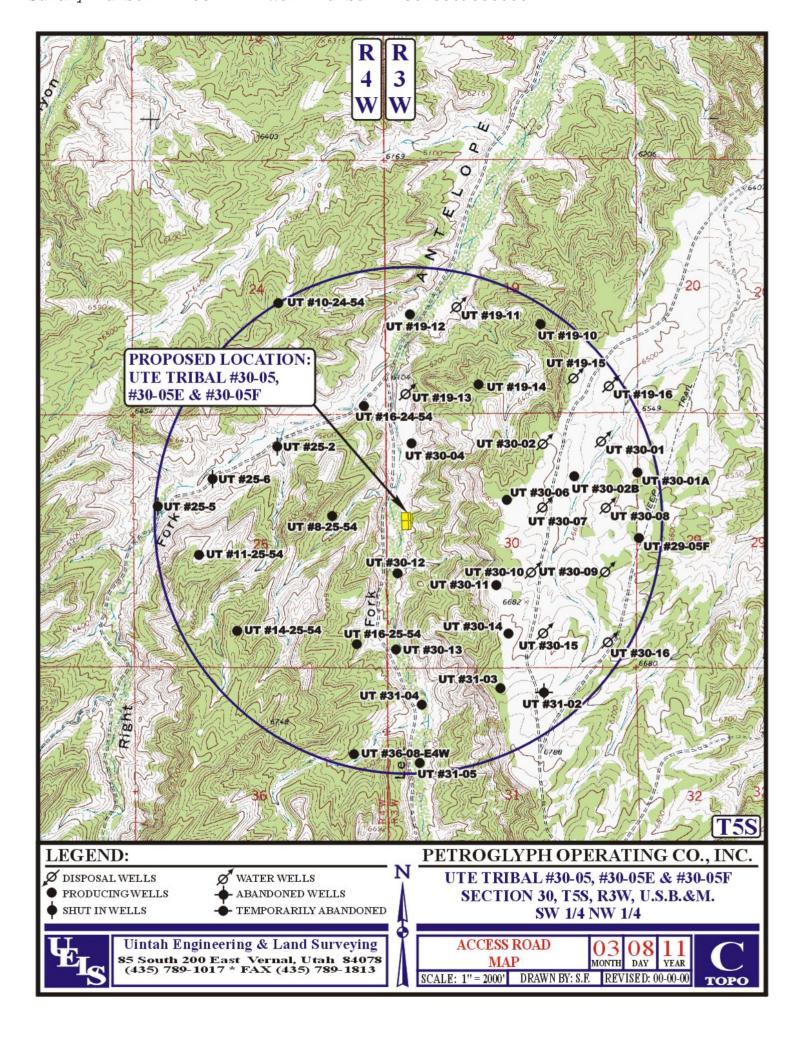
APPLICANT	
AGENT	
TITLE	

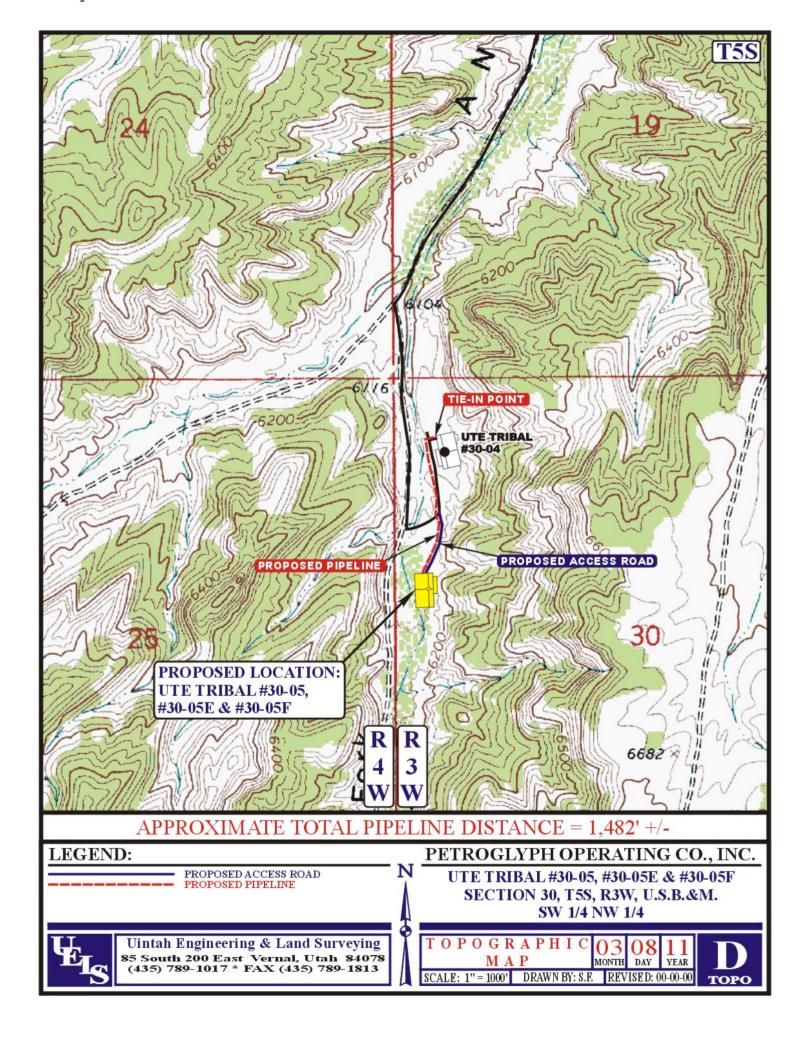
REGISTRATION NO 161819 STATE OF UTAHOF UTAH

RECEIVED: Apr. 03, 2012









	STATE OF UTAH		FORM 9			
	DEPARTMENT OF NATURAL RESOURCE DIVISION OF OIL, GAS, AND MIN		5.LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-3519			
SUNDR	Y NOTICES AND REPORTS	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE			
current bottom-hole depth,	On ont use this form for proposals to drill new wells, significantly deepen existing wells below surrent bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.					
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: UTE TRIBAL 30-05					
2. NAME OF OPERATOR: PETROGLYPH OPERATING C	50		<b>9. API NUMBER:</b> 43013509350000			
3. ADDRESS OF OPERATOR: 960 Broadway Ave, Ste 500	), Bosie, ID, 83703 20	PHONE NUMBER: 8 685-7674 Ext	9. FIELD and POOL or WILDCAT: ANTELOPE CREEK			
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2042 FNL 0353 FWL			COUNTY: DUCHESNE			
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: SWNW Section:	HP, RANGE, MERIDIAN: 30 Township: 05.0S Range: 03.0W Meri	dian: U	STATE: UTAH			
11. CHEC	K APPROPRIATE BOXES TO INDICAT	E NATURE OF NOTICE, REPOR	RT, OR OTHER DATA			
TYPE OF SUBMISSION		TYPE OF ACTION				
	ACIDIZE	ALTER CASING	CASING REPAIR			
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME			
	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE			
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION			
	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK			
✓ SPUD REPORT	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION			
Date of Spud: 3/29/2012	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON			
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL			
DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION			
	☐ WILDCAT WELL DETERMINATION	OTHER	OTHER:			
	COMPLETED OPERATIONS. Clearly show a well on 03/29/2012. We set		Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY April 04, 2012			
NAME (PLEASE PRINT) Rodrigo Jurado	<b>PHONE NUMBI</b> 435 722-5302	ER TITLE Regulatory & Compliance S	рс			
SIGNATURE N/A		<b>DATE</b> 4/2/2012				

# BLM - Vernal Field Office - Notification Form

Operator <u>Petroglyph Operating</u> Rig Name/# <u>Craig's /Air rig</u> Submitted By <u>Rodrigo Jurado</u> Phone Number <u>435-722-5302</u>	]							
Well Name/Number <u>Ute Tribal 30-05</u>								
Qtr/Qtr <u>SWNW</u> Section <u>30</u> Township <u>5S</u> Range <u>3W</u>								
Lease Serial Number <u>14-20-H62-3519</u>								
API Number43-013-50935								
<u>Spud Notice</u> – Spud is the initial spudding of the well, not drill out below a casing string.	ing							
Date/Time 3/28/2012 08:00 AM 🔀PM 🗌								
<u>Casing</u> – Please report time casing run starts, not cementing times.								
Surface Casing RECEIVE	Đ							
Intermediate Casing MAR 2 8 20	12							
Production Casing DIV. OF OIL, GAS &	MINING							
Liner DIV. OF OIL, GAS &								
Date/Time AM								
BOPE								
Initial BOPE test at surface casing point								
BOPE test at intermediate casing point								
30 day BOPE test Other								
Date/Time AM PM								
Remarks We hope to spud and set 40' of 14" conductor.								

# BLM - Vernal Field Office - Notification Form

Operator Petroglyph Operati	ing Rig Name/# <u>Craig's //</u>	<u> Air rig</u>					
Submitted By Rodrigo Jurado Phone Number 435-722-5302							
Well Name/Number <u>Ute Tribal 30-05</u> Qtr/Qtr <u>SWNW</u> Section <u>30</u> Township <u>5S</u> Range <u>3W</u> Lease Serial Number <u>14-20-H62-3519</u>							
API Number43-013-5093	5						
Spud Notice – Spud is the in out below a casing string.	nitial spudding of the well, not	: drilling					
Date/Time	AM  PM  PM						
<u>Casing</u> – Please report time times.	casing run starts, not cement	ing					
Surface Casing	REC	EIVED					
Intermediate Casing	APR	0 2 2012					
Production Casing	DIV. OF OIL.	GAS & MINING					
Liner Other							
Date/Time <u>04/2/2012</u>	<u>5:00</u> AM 🔀 PM [						
BOPE							
Initial BOPE test at surf	<b>5</b> i						
BOPE test at intermedia 30 day BOPE test	ate casing point						
Other							
Date/Time	AM						
December 1840 internal to make 0	C/Oll gurfage enging to appro						
480' MD. (sent 4/1/2012)	3 5/8" surface casing to appro	<u>'X</u>					
TOO LID! (SCHE TITICATE)							

# STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

ENTITY ACTION FORM							
Petroglyph Operating Company	Operator Account Number: N 3800						
P.O. Box 607							

city Roosevelt

zip 84066 state UT

Phone Number: <u>(435)</u> 722-2531

Well 1

Operator:

Address:

API Number	Well I	QQ	Sec	Twp	Rng	County	
4301350944	Ute Tribal 30-05F		SWNW	30	5S	3W	Duchesne
Action Code	Current Entity Number			Spud Date Entity A		ty Assignment fective Date	
В	noin	17577	3	3/28/201	2	416	24112
Comments: <sub>Plea</sub>	se add to existing Ute Tri	bal 30-04 TB					DENTAL

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County	
4301350935	Ute Tribal 30-05		swnw	35	5S	3W	Duchesne	
Action Code	Current Entity Number	New Entity Number	Spud D		te	e Entity Assign Effective D		
В	News	17577	3/29/2012			4124112		
Comments: <sub>Plea</sub>			CO	IFIDE				

Well 3

API Number	Well Name		QQ Sec Twp		Twp	Rng County			
4301350936	Ute Tribal 30-05E		SWNW	30	58	3W	Duchesne		
Action Code	Current Entity Number			Spud Date			Entity Assignment Effective Date		
В	new	17577	3	3/30/201	2	41	24112		
Comments: Plea	se add to existing Ute Tri	ibal 30-04 TB	•		C				

#### **ACTION CODES:**

- A Establish new entity for new well (single well only)
- **B** Add new well to existing entity (group or unit well)
- C Re-assign well from one existing entity to another existing entity
- D Re-assign well from one existing entity to a new entity
- E Other (Explain in 'comments' section)

R	E	C	Ê	National Control	V	0	Ū
3. 5.	Season.	200	Decree .	17	₹/	Emstur	200

Rodrigo	Jurado

Name (Please Print)

Title

Regulatory Compliance Spc

3/30/2012 Date

(5/2000)

APR 22 2012

	STATE OF UTAH		FORM 9
ı	DEPARTMENT OF NATURAL RESOUR DIVISION OF OIL, GAS, AND MI		5.LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-3519
SUNDR	RY NOTICES AND REPORTS	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE
	posals to drill new wells, significantly reenter plugged wells, or to drill horize n for such proposals.		7.UNIT or CA AGREEMENT NAME: ANTELOPE CREEK
1. TYPE OF WELL Oil Well			8. WELL NAME and NUMBER: UTE TRIBAL 30-05
2. NAME OF OPERATOR: PETROGLYPH OPERATING C	:0		9. API NUMBER: 43013509350000
3. ADDRESS OF OPERATOR: 960 Broadway Ave, Ste 500	) , Bosie, ID, 83703 2	<b>PHONE NUMBER:</b> 08 685-7674 Ext	9. FIELD and POOL or WILDCAT: ANTELOPE CREEK
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2042 FNL 0353 FWL			COUNTY: DUCHESNE
QTR/QTR, SECTION, TOWNSH	HIP, RANGE, MERIDIAN: 30 Township: 05.0S Range: 03.0W Me	eridian: U	STATE: UTAH
11. CHECI	K APPROPRIATE BOXES TO INDICA	TE NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	ACIDIZE	ALTER CASING	CASING REPAIR
Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
5/15/2012	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION
Date of Work Completion:	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
SPUD REPORT Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	TUBING REPAIR	VENT OR FLARE	✓ WATER DISPOSAL
DRILLING REPORT	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION
Report Date:	WILDCAT WELL DETERMINATION	OTHER	OTHER:
42 DESCRIPE PROPOSED OR		all negligent details insteading dates	<u> </u>
All produced water injection s located at the follow Duchesne County,	COMPLETED OPERATIONS. Clearly show er will be trucked or pumpe stations for injection. Water ving: Ute Tribal 21-11 NESW Utah. Ute Tribal 18-08 SENE Utah. Ute Tribal 34-12D3 N R3W, Duchesne County, U	dthrough pipeline to a injection stations are V Section 21, T5S, R3W, E Section 18, T5S, R3W, IWSW Section 34, T4S,	Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY May 17, 2012
NAME (PLEASE PRINT)	PHONE NUMI		
Rodrigo Jurado	435 722-5302	Regulatory & Compliance S	Spc
SIGNATURE N/A		<b>DATE</b> 4/13/2012	

Sundry Number: 26158 API Well Number: 43013509350000 FEDERAL APPROVAL OF THIS ACTION IS NECESSARY

STATE OF UTAH  DEPARTMENT OF INATURE RESOURCES DIVISION OF OIL, GAS, AND MINING  SUNDRY NOTICES AND REPORTS ON WELLS  Do not use this form opposals to drill now wells, significantly deopen existing wells below current bottom-from of proposals to drill now wells, significantly deopen existing wells below current bottom-from of proposals to drill now wells, significantly deopen existing wells below current bottom-from of proposals to drill now wells, significantly deopen existing wells below current bottom-from of proposals to drill now wells, significantly deopen existing wells below current bottom-from one of proposals to drill now wells, significantly deopen existing wells below current bottom-from one of proposals to drill now wells, significantly deopen existing wells below current bottom-from one of the such proposals.  INTELOPE CREEK  ANTELOPE CREEK  ANTELOPE CREEK  ANTELOPE CREEK  ANTELOPE CREEK  LOCATION OF MELL POOTAGES AT SURFACE:  UTAH  CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA  TYPE OF SUBMISSION  TYPE OF ACTION  TYPE OF ACTI						
SUNDRY NOTICES AND REPORTS ON WELLS  Do not used in form for proposals to drill now wells, significantly deepen existing wells below current bottom-hole deephr, rearter plugged wells, or to drill horizontal laterals. Use APPLICATION PARTICIPED CONTROL CO		STATE OF UTAH		FORM 9		
SUNDRY NOTICES AND REPORTS ON WELLS  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-fole deeph, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION TO REPORT TO RESUME THAT TO REPORT TO REPORT TO REPORT TO REPORT TO RESUME THAT THAT THAT THAT THAT THAT THAT THA		DEPARTMENT OF NATURAL RESOURC		5.LEASE DESIGNATION AND SERIAL NUMBER:		
DO NOT USE this form for proposals to drill new wells, significantly despen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION PROPERTIES OF DRILL form for such proposals.  1. TYPE OF WELL  OI Well  2. NAME OF OPERATOR: PETRODICTYPH OPERATING.  ADDRESS OF OPERATOR: PETRODICTYPH OPERATING.  ADDRESS OF OPERATOR: PETRODICTYPH OPERATING.  ADDRESS OF OPERATOR: PHONE NUMBER: OUT OF WELL  OUT OF WELL  OUT OF WELL  COUNTY: CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA  TYPE OF SUBMISSION  TYPE OF SUBMISSION  TYPE OF ACTION  OF SUBMISSION  TYPE OF SU		DIVISION OF OIL, GAS, AND MIN	IING	14-20-H62-3519		
CUTTENT DOTRICLE FOR PENALT DOTRICLE FOR FOR PENALT DO BRILL form for such proposals.  1.TYPE OF WELL  1.TYPE OF WELL  1.TYPE OF OF OPERATOR: 960 Broadway Ave, Site 500 , Bosile, ID, 83703  2.08 B85-7674 Ext  2.08 B85-7674						
Oil Well  2. NAME OF OPERATOR: PETRODICHY OPERATING CO  3. ADDRESS OF OPERATOR: PETRODICHY OPERATING CO  3. ADDRESS OF OPERATOR: PETRODICHY OPERATING CO  3. ADDRESS OF OPERATOR: PHONE NUMBER: 208 685-7674 Ext  4. NAME OPERATOR: PHONE NUMBER: 208 685-7674 Ext  4. NAME OPERATOR: PHONE NUMBER: 208 685-7674 Ext  4. NAME OPERATOR: DOING SIN FILL DIA PROJECT WILLDCAT: AND COUNTY; COUN	current bottom-hole depth,	reenter plugged wells, or to drill horizon				
ADDRESS OF OPERATORS  3. ADDRESS OF OPERATORS  BOB Droadway Ave, Site 500 , Bosie, ID, 83703  ALCATION OF WELL  FOOTAGES AT SURFACE:  2042 FIN. 0355 FVII.  CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA  TYPE OF SUBMISSION  TYPE OF ACTION  ACROSS OF MANSE AND ADDRESS OF OPERATORS FAMS OF STATE STATUS EXTENSION  ACROSS OF MANSE AND ADDRESS OF OPERATORS FAMS OF STATE STATUS EXTENSION  ACROSS OF MANSE AND ADDRESS OF STATE STATUS EXTENSION  ACROSS OF MANSE OF STATE STATUS EXTENSION  BUBBISSION  TYPE OF ACTION  ACROSS OF MANSE OF MANSE OF MANSE OF STATE STATUS EXTENSION  ACROSS OF MANSE OF WELL 17978  CHANGE TO PREVIOUS FAMS OF STATE STATUS EXTENSION  BUBBISSION  ACROSS OF MANSE OF WELL 17978  CHANGE TO PREVIOUS FAMS OF STATE STATUS EXTENSION  OF MANSE OF THE STATUS OF STATUS EXTENSION  TUBBIS OF THE STATUS OF STATUS EXTENSION  TOBIC OF MANSE OF THE STATUS OF STATES OF THE STATUS EXTENSION  OF MANSE OF THE STATUS EXTENSION  TOBIC OF MANSE OF THE STATUS EXTENSION  TOBIC OF THE STATUS EXTENSION  TOBIC OF THE STATUS EXTENSION  TOBIC OF THE STATUS EXTENSION  AND EXTENSION  OF ALL STATUS EXTENSION  TOBIC OF THE STATUS EXTENSION  AND EXTENSION  OF ALL STATUS EXTENSION  TOBIC OF THE STATUS EXTENSION  ACCEPTED TO THE OPERATOR OF THE STATUS EXTENSION  OF THE STATUS EXTENSION  THE OPERATOR CHANGE OF THE STATUS EXTENSION  OF THE OPERATOR CHANGE OF THE STATUS EXTENSION  AND EXTENSION  THE OPERATOR CHANGE OF THE STATUS EXTENSION  OF THE OPERATOR CHANGE OF THE STATUS OF THE STATUS EXPONENTIAL CHANGE OF THE STATUS OF THE STATUS OF						
SOB Broadway Ave, Sie 500 . Bosie . ID . 83703  208 685-7674 Ext  ANTELOPE CREEK  LOCATION OF WELL  FOOTAGES AT SUSSAFACE: 2042 FIN L 9385 FWL CITIVITY, SECTION, TOWNSHIP, RANGE, MERIDIAN: CITIVITY, SECTION, TOWNSHIP, RANGE, MERIDIAN: CITIVITY, SWINW Section: 30 Township: 05.05 Range: 03.0W Meridian: U  TYPE OF SUBMISSION  TYPE OF ACTION  **CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA  TYPE OF SUBMISSION  TYPE OF ACTION  **ACTION:**  **CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA  TYPE OF SUBMISSION  **TYPE OF ACTION  **ACTION:**  **AC		20				
**LOCATION OF WELL 2042 PNL 9353 PWL OTHERS TRUEFACE: 2042 PNL 9353 PWL OTHERS TRUEFACE: OT		0 , Bosie, ID, 83703 20		I .		
2042 FNL 0353 FWL CITYOUT: SWNNW Section: 30 Township: 05.05 Range: 03.0W Meridian: U  11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA  TYPE OF SUBMISSION  TYPE OF ACTION      ACROSC	4. LOCATION OF WELL					
OttriOtt: SWNW Section: 30 Township: 05.0S Range: 03.0W Meridian: U  11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA  TYPE OF SUBMISSION  TYPE OF ACTION    ACIDIZE	I .			DUCHESNE		
TYPE OF SUBMISSION    ACIDIZE			idian: U	1 -		
A NOTICE OF INTERNY Approximate date work will start: 5/1/2012   CHANGE TO PREVIOUS PLANS	11. CHEC	K APPROPRIATE BOXES TO INDICAT	E NATURE OF NOTICE, REPOR	RT, OR OTHER DATA		
Appreximate server will start:    S/1/2012	TYPE OF SUBMISSION		TYPE OF ACTION			
Appreximate server will start:    S/1/2012		ACIDIZE	ALTER CASING	CASING REPAIR		
SUBSEQUENT REPORT   Date of Work Completion:   DEEPCH   DeepCH   PRODUCTION FORMATIONS   DEEPCH   DeepCH   PRODUCTION TOWN COMPLETE DIFFERNT FORMATION   PRUD AND ABANDON   PRUD BACK   RECLAMATION OF WELL SITE   RECOMPLETE DIFFERNT FORMATION   SIDETACK TO REPAIR WELL   TEMPORARY ABANDON   WATER SHUTOFF   SITA STATUS EXTENSION   DIFFERNT FORMATION   WATER SHUTOFF   SITA STATUS EXTENSION   DIFFERNT FORMATION   DIFFERNT FORMATI						
SUBSEQUENT REPORT Date of Work Completion: Dat	5/1/2012					
Date of Work Completion:    OPERATOR CHANGE   PLUG AND ABANDON   PLUG BACK	SUBSECUENT REPORT	_				
SPUD REPORT   PRODUCTION START OR RESUME   RECLAMATION OF WELL SITE   RECOMPLETE DIFFERENT FORMATION   SIDETRACK TO REPAIR WELL   TEMPORARY ABANDON   TUBINO REPAIR   WATER SHUTOFF   SITA STATUS EXTENSION   APD EXTENSION   OTHER   OTHER   OTHER    12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  Sometime between 6/1/2012 and 6/18/2012, depending on equipment availability, Petroglyph Operating intends to perforate and frac the following intervals: 4096'-4107', 4342-4352, 4409.5-4438, 4577-4578.5, 4588-4590, 4612-4618, 4748-4752, 5070.5-5072, 5083.5-5085.5, 5113-5120, 5152.5-5158. We intend to perforate with Titan 3 1/8" Perf guns containing 22.7 gram chaarges, .42" EHD, 23.54  TTP @ 4 spf @ 120* phased. We intend to frac using Delta 140 15# gelled fluid and 20/40 mesh sand, volumes and amounts to be reported at a later date.  NAME (PLEASE PRINT)		_				
SPUD-REPORT   Date of Spud:   TUBBIG REPART CURRENT FORMATION   SIDETRACK TO REPAR WELL   TEMPORARY ABANDON   WATER SHUTOFF   SITA STATUS EXTENSION   APD EXTENSION   OTHER:   OTHER:   OTHER   OTHER:						
TUBING REPAR   VENTOR FLARE   APD EXTENSION   APD EXTENSION   OTHER		_				
DRILLING REPORT Report Date:    WATER SHUTOFF	·	_				
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NAME (PLEASE PRINT) Rodrigo Jurado  PHONE NUMBER Regulatory & Compliance Spc  SIGNATURE  Ref guns containing 22.7 gram chaarges, .42" EHD, 23.54  TTP @ 4 spf @ 120* phased. We intend to frac using Delta 140 15#  gelled fluid and 20/40 mesh sand, volumes and amounts to be reported at a later date.		· · · · · · · · · · · · · · · · · · ·	•	Date: May 30, 2012		
TTP @ 4 spf @ 120* phased. We intend to frac using Delta 140 15# gelled fluid and 20/40 mesh sand, volumes and amounts to be reported at a later date.    NAME (PLEASE PRINT)			•			
gelled fluid and 20/40 mesh sand, volumes and amounts to be reported at a later date.    NAME (PLEASE PRINT)   PHONE NUMBER   Rodrigo Jurado   435 722-5302   Regulatory & Compliance Spc   SIGNATURE   DATE		•	•	By: 187 L Junt		
NAME (PLEASE PRINT) Rodrigo Jurado  PHONE NUMBER 435 722-5302  Regulatory & Compliance Spc  SIGNATURE  DATE		•	•			
Rodrigo Jurado 435 722-5302 Regulatory & Compliance Spc  SIGNATURE DATE	gonou nara ana 207					
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	STATE OF UTAH			FORM 9
ı	DEPARTMENT OF NATURAL RESOL DIVISION OF OIL, GAS, AND I		ì	5.LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-3519
SUNDR	Y NOTICES AND REPORT	S ON	WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE
	posals to drill new wells, significan reenter plugged wells, or to drill hou n for such proposals.			7.UNIT or CA AGREEMENT NAME: ANTELOPE CREEK
1. TYPE OF WELL Oil Well				8. WELL NAME and NUMBER: UTE TRIBAL 30-05
2. NAME OF OPERATOR: PETROGLYPH OPERATING C	:0			9. API NUMBER: 43013509350000
3. ADDRESS OF OPERATOR: 960 Broadway Ave, Ste 500	) , Bosie, ID, 83703		NE NUMBER: 5-7674 Ext	9. FIELD and POOL or WILDCAT: ANTELOPE CREEK
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2042 FNL 0353 FWL				COUNTY: DUCHESNE
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: SWNW Section:	HIP, RANGE, MERIDIAN: 30 Township: 05.0S Range: 03.0W	Meridian	: U	STATE: UTAH
11. CHECI	K APPROPRIATE BOXES TO INDI	CATE N	ATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION			TYPE OF ACTION	
	ACIDIZE		ALTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS		CHANGE TUBING	CHANGE WELL NAME
Approximate date from this class.	CHANGE WELL STATUS		COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	☐ F	RACTURE TREAT	NEW CONSTRUCTION
6/28/2012	OPERATOR CHANGE	P	PLUG AND ABANDON	PLUG BACK
SPUD REPORT	✓ PRODUCTION START OR RESUME		RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
Date of Spud:	REPERFORATE CURRENT FORMATION	□ s	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	TUBING REPAIR	□ v	ENT OR FLARE	WATER DISPOSAL
DRILLING REPORT Report Date:	WATER SHUTOFF	□ s	SI TA STATUS EXTENSION	APD EXTENSION
nopon suio.	_		NTUED	
	WILDCAT WELL DETERMINATION		JIHER	OTHER:
	COMPLETED OPERATIONS. Clearly shirst production for this we	-		Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY July 03, 2012
NAME (PLEASE PRINT)	PHONE NU	IMBER	TITLE	
Rodrigo Jurado	435 722-5302		Regulatory & Compliance S	pc
SIGNATURE N/A			<b>DATE</b> 7/3/2012	

RECEIVED: Jul. 03, 2012

	STATE OF UTAH		FORM 9				
ı	DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MININ		5.LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-3519				
SUNDR	RY NOTICES AND REPORTS O	N WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE				
	oposals to drill new wells, significantly de reenter plugged wells, or to drill horizonta n for such proposals.		7.UNIT or CA AGREEMENT NAME: ANTELOPE CREEK				
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4. LOCATION OF WELL FOOTAGES AT SURFACE: 2042 FNL 0353 FWL			COUNTY: DUCHESNE				
QTR/QTR, SECTION, TOWNSH Qtr/Qtr: SWNW Section:	HIP, RANGE, MERIDIAN: 30 Township: 05.0S Range: 03.0W Meridi	an: U	STATE: UTAH				
11. CHEC	K APPROPRIATE BOXES TO INDICATE	NATURE OF NOTICE, REPOF	RT, OR OTHER DATA				
TYPE OF SUBMISSION		TYPE OF ACTION					
	ACIDIZE	ALTER CASING	CASING REPAIR				
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME				
Approximate date work will start.	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE				
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION				
6/28/2012	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK				
		1					
SPUD REPORT Date of Spud:	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION				
	L REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	LI TEMPORARY ABANDON				
DRILLING REPORT	L TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL				
Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION				
	WILDCAT WELL DETERMINATION	OTHER	OTHER:				
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  On 5/31/2012 Petroglyph Operating ran GR/CBL and found ETOC @ 58', and perf'd: 4096-4107, 4342-52, 4409-38, 4577-79, 4588-90, 4612-18, 4748-52, 5070-72, 5083-85, 5113-20, & 5152-58. We frac'd the following: Zone 1: 5070-5158 w/ 476 Bbls fluid cont.  31,700#'s of sand, Zone 2: 4748-52 w/ 282 Bbls fluid cont. 14,400#'s of sand, Zone 3: 4577-4618 w/ 348 Bbls fluid cont. 20,000#'s of sand, Zone 5: 4342-52 w/ 386 Bbls fluid cont. 18,050#'s of sand, & Zone 6: 4096-4107 w/ 320 Bbls fluid cont. 11,600#'s of sand. Isolation Plugs: Halliburton 8K Composite. Fluid: Delta 140 15# gelled fluid. Sand: 20/40 mesh premium white. Perf guns were Titan 3 1/8" cont. 22.7 gram charges, 0.42"EHD, 23.54"TTP @ 4 spf @ 120* phased. Plugs drilled out and well cleaned to 5334, swabbed until good oil cut was seen, ran pump and put to pump 6/28/2012.							
NAME (PLEASE PRINT) Rodrigo Jurado	<b>PHONE NUMBER</b> 435 722-5302	TITLE Regulatory & Compliance S	рс				
SIGNATURE		DATE 7/25/2012					

STATE OF UTAH AMENDED REPORT FORM 8 AUG 1 5 2012 DEPARTMENT OF NATURAL RESOURCES (highlight changes) 5. LEASE DESIGNATION AND SERIAL NUMBER: DIVISION OF OIL. GAS AND MINING 14-20-H62-3519 WELL COMPLETION OR RECOMPLETION REPORT AND LOG 6. IF INDIAN, ALLOTTEE OR TRIBE NAME Ute Indian Tribe 1a. TYPE OF WELL: UNIT or CA AGREEMENT NAME OIL V DRY OTHER 14-20-H62-4650 b. TYPE OF WORK WELL NAME and NUMBER: DEEP-RE-ENTRY DIFF. RESVR. WELL **Z** Ute Tribal 30-05 OTHER API NUMBER: 2. NAME OF OPERATOR Petroglyph Operating Company, Inc. 4301350935 3. ADDRESS OF OPERATOR: PHONE NUMBER: 10 FIELD AND POOL, OR WILDCAT STATE UT ZIP 84066 Antelope Creek (435) 722-2531 P.O. Box 607 CITY Roosevelt 11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: 4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 2045' FNL, 353' FWL SWNW 30 5S **3W** AT TOP PRODUCING INTERVAL REPORTED BELOW: 1998' FNL, 565' FWL 12. COUNTY BHL by HSM AT TOTAL DEPTH: 202 + FNL, 564' FWL UTAH Duchesne 15. DATE T.D. REACHED: 16. DATE COMPLETED: 17. ELEVATIONS (DF, RKB, RT, GL): 14. DATE SPUDDED: ABANDONED 🗸 READY TO PRODUCE 5/9/2022 6/28/2012 6175 RKB 3/29/2012 19. PLUG BACK T.D.: MD 5,334 21. DEPTH BRIDGE 18. TOTAL DEPTH: 20. IF MULTIPLE COMPLETIONS, HOW MANY? \* 5.386 PLUG SET TVD TVD 5.378 TVD 5.326 22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each) NO 🗸 WAS WELL CORED? YES (Submit analysis) ACTR, Borehole Volume, Spectral Density, SDDSN, CBL. NO 🗸 YES WAS DST RUN? (Submit report) DIRECTIONAL SURVEY? ио [ YES 🗸 (Submit copy) 24. CASING AND LINER RECORD (Report all strings set in well) STAGE CEMENTER CEMENT TYPE & SLURRY AMOUNT PULLED BOTTOM (MD) CEMENT TOP \*\* TOP (MD) WEIGHT (#/ft.) HOLE SIZE SIZE/GRADE VOLUME (BBL) DEPTH NO OF SACKS 56 0 42 0 114 G 275 20 14 K-55 0 G 350 72 24 0 507 12.25 8.625 J-55 G 226 0 CBL 725 15.5 0 5,379 7.875 5.5 J-55 25. TUBING RECORD PACKER SET (MD) DEPTH SET (MD) PACKER SET (MD) SIZE DEPTH SET (MD) SIZE DEPTH SET (MD) PACKER SET (MD) SIZE 5,193 2.875 27. PERFORATION RECORD 26. PRODUCING INTERVALS NO. HOLES PERFORATION STATUS INTERVAL (Top/Bot - MD) SIZE FORMATION NAME TOP (MD) BOTTOM (MD) TOP (TVD) BOTTOM (TVD) 4.089 0.42 324 Squeezed 5.158 5.150 4.096 5,158 Open (A) Green River 4.096 Squeezed Open (B) Open Squeezed (C) Squeezed (D) 28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC. AMOUNT AND TYPE OF MATERIAL DEPTH INTERVAL 2,544 Bbls Delta 140 15# gelled fluid containing 165,850#'s 20/40 mesh sand 4,096'-5,158' 30. WELL STATUS: 29. ENCLOSED ATTACHMENTS:

GEOLOGIC REPORT

CORE ANALYSIS

DST REPORT

OTHER: UDOGM Form 7

✓ DIRECTIONAL SURVEY

POW

✓ ELECTRICAL/MECHANICAL LOGS

SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION

#### 31. INITIAL PRODUCTION

#### INTERVAL A (As shown in item #26)

DATE FINGI FIN	ODUCED:	TEST DATE:		HOURS TESTER	D;	TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
6/28/2012	<u></u>	7/16/2012	2	] 2	24		38	37	100	Rod Pump
CHOKE SIZE: 40/64	TBG. PRESS. 50	CSG. PRESS. 140	API GRAVITY 39.50	BTU - GAS 1	GAS/OIL RATIO 973	24 HR PRODUCTION RATES: →	OIL – BBL: <b>38</b>	GAS - MCF: 37	WATER - BBL: 100	INTERVAL STATUS Open
				INT	ERVAL B (As sho	wn in item #26)				
DATE FIRST PRO	ODUCED:	TEST DATE:		HOURS TESTED	):	TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS
				INT	ERVAL C (As sho	wn in item #26)				
DATE FIRST PRO	ODUCED:	TEST DATE:		HOURS TESTER	):	TEST PRODUCTION RATES: →	OIL BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS
				INT	ERVAL D (As sho	wn in item #26)	·			<u> </u>
DATE FIRST PRO	DDUCED:	TEST DATE:		HOURS TESTED	):	TEST PRODUCTION RATES: →	OIL BBL:	GAS MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drilf-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				Uinta	30
	ļ			Green River	1,038
				Trona	2,304
				Mahogany	2,458
				Garden Gulch	3,135
				B Marker	3,534
				X Marker	4,020
		i l		Douglas Creek	4,163
				B Lime	4,540
	Į			Castle Peak	5,092

35. ADDITIONAL REMARKS (Include plugging procedure)

All perf and frac info is condensed. Please see NOI and Subsequent Frac Sundry for a detailed record.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.								
NAME (PLEASE PRINT) Rodrigo Jurado	TITLE Regulatory Compliance Spc.							
SIGNATURE AND	DATE 8/3/2012							

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- · reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- · drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

Send to:

Utah Division of Oil, Gas and Mining 1594 West North Temple, Suite 1210

Box 145801

Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

<sup>\*</sup> ITEM 20: Show the number of completions if production is measured separately from two or more formations.

<sup>\*\*!</sup>TEM 24: Cement Top - Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).



Job Number: SVGJ-120502

Company: Petroglyph

Lease/Well: Ute Tribal 30-05

Location: Duchesne County, Utah

**Rig Name: Casedhole Solutions** 

**RKB: 0'** 

G.L. or M.S.L.: GL

State/Country: Utah/USA

Declination: 11.27°

**Grid: East To True North** 

File name: F:\SURVEY\2012SU~1\PETROG~1\LORENZ\UTE\30-05.SVY

Date/Time: 25-Apr-12 / 16:14

Curve Name: Surface - 342' M.D. (Rate Gyro)

# WINSERVE SURVEY CALCULATIONS Minimum Curvature Method Vertical Section Plane .00

Vertical Section Referenced to Wellhead Rectangular Coordinates Referenced to Wellhead We hereby certify that our survey data from SUFACE MD to 3+2/ MD is, to the best of our knowledge a true and accurate account of the well bore.

MS Energy Services

Date

Measured	Measured Incl Drift		sured Incl Drift		sured Incl Drift True				Vertical	CLOSURE		Dogleg
Depth FT	Angle Deg	Direction Deg	Vertical Depth	N-S FT	E-W FT	Section FT	Distance FT	Direction Deg	Severity Deg/100			
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00			
100.00	.78	307.57	100.00	.42	54	.42	.68	307.57	.78			
200.00	.27	315.67	199.99	1.00	-1.24	1.00	1.59	308.76	.51			
300.00	.07	348.19	299.99	1.23	-1.42	1.23	1.88	310.81	.21			
Last Surve	y Depth Recor	ded										
342.00	.16	50.87	341.99	1.29	-1.38	1.29	1.89	313.04	.34			



Job Number: UT121006

Company: Petroglyph

Lease/Well: Ute Tribal 30-05

**Location: Duchesne County** 

Rig Name: Aztec Rig 673

RKB: 10.5

G.L. or M.S.L.: MSL

State/Country: Utah / USA

**Declination: 11.27** 

Grid: True

File name: C:\DOCUME~1\HBUSER\DESKTOP\UT121006.SVY

Date/Time: 10-May-12 / 00:29 Curve Name: Ute Tribal 30-05

#### **Payzone Directional**

#### WINSERVE SURVEY CALCULATIONS

Minimum Curvature Method Vertical Section Plane 77.00 Vertical Section Referenced to Wellhead Rectangular Coordinates Referenced to Wellhead

Measured	Incl	Drift	True			Vertical	CL	OSURE	Dogleg
Depth FT	Angle Deg	Direction Deg	Vertical Depth	N-S FT	E-W FT	Section FT	Distance FT	Direction Deg	Severity Deg/100
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
556.00	.00	75.47	556.00	.00	.00	.00	.00	.00	.00
647.00	.91	53.89	647.00	.43	.58	.66	.72	53.89	1.00
737.00	1.58	86.94	736.98	.91	2.40	2.54	2.57	69.17	1.06
829.00	2.55	86.42	828.91	1.11	5.71	5.81	5.82	79.01	1.05
920.00	3.16	76.18	919.80	1.83	10.17	10.32	10.33	79.77	.87
1012.00	3.82	73.54	1011.63	3.31	15.57	15.91	15.91	78.00	.74
1105.00	4.44	77.10	1104.39	4.99	22.05	22.60	22.60	77.25	.72
1198.00	5.05	77.36	1197.07	6.69	29.55	30.30	30.30	77.24	.66
1291.00	4.13	80.04	1289.77	8.16	36.84	37.73	37.74	77.51	1.02
1384.00	4.26	77.23	1382.52	9.51	43.51	44.53	44.54	77.67	.26
1477.00	4.09	78.51	1475.27	10.93	50.13	51.30	51.31	77.70	.21
1570.00	4.66	77.54	1568.00	12.41	57.07	58.40	58.40	77.73	.62

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L C Distance FT	OSURE Direction Deg	Dogleg Severity Deg/100
1663.00	4.53	75.56	1660.70	14.14	64.31	65.84	65.85	77.60	.22
1757.00	4.26	77.67	1754.43	15.81	71.32	73.05	73.05	77.50 77.50	.33
1850.00	4.13	80.62	1847.18	17.09	78.00	79.84	79.85	77.64	.33 .27
1943.00	4.04	86.02	1939.94	17.87	84.57	86.42	86.44	78.07	.42
2036.00	3.74	84.79	2032.73	18.37	90.86	92.66	92.70	78.57	.33
2000.00	0.74	04.73	2002.75	10.57	90.00	92.00	92.70	76.57	.33
2131.00	3.43	80.44	2127.54	19.12	96.75	98.57	98.62	78.82	.43
2224.00	3.25	79.87	2220.38	20.05	102.08	103.98	104.03	78.89	.20
2317.00	3.69	68.14	2313.22	21.63	107.46	109.57	109.61	78.62	.90
2409.00	3.87	67.65	2405.02	23.91	113.08	115.56	115.58	78.06	.20
2502.00	3.96	68.41	2497.80	26.28	118.96	121.83	121.83	77.54	.11
	5.55	33	2101.00	20.20	110.00	121.00	121.00	77.04	
2595.00	4.04	66.25	2590.57	28.78	124.95	128.22	128.22	77.03	.18
2688.00	3.78	66.77	2683.36	31.31	130.77	134.46	134.46	76.53	.28
2781.00	4.44	72.31	2776.12	33.62	137.01	141.06	141.08	76.21	.83
2875.00	4.41	74.08	2869.84	35.71	143.95	148.30	148.32	76.07	.15
2968.00	4.88	81.54	2962.53	37.28	151.30	155.81	155.83	76.16	.82
		0	2002.00	07.20	101.00	100.01	100.00	70.10	.02
3061.00	5.19	80.48	3055.17	38.55	159.37	163.95	163.96	76.40	.35
3154.00	4.70	80.04	3147.83	39.91	167.27	171.96	171.96	76.58	.53
3247.00	4.22	81.10	3240.54	41.10	174.40	179.18	179.18	76.74	.52
3340.00	3.91	79.96	3333.31	42.18	180.90	185.75	185.76	76.88	.34
3433.00	3.91	79.87	3426.09	43.29	187.15	192.09	192.09	76.98	.01
3526.00	2.00	00.70	0540.00	44.00	400.45	400.47	400.47		
	3.60	80.70	3518.89	44.32	193.15	198.17	198.17	77.08	.34
3619.00	2.99	77.98	3611.74	45.30	198.40	203.51	203.51	77.14	.68
3713.00	2.24	78.51	3705.64	46.17	202.60	207.80	207.80	77.16	.80
3806.00	1.76	84.57	3798.58	46.67	205.80	211.03	211.03	77.22	.56
3899.00	1.58	87.30	3891.54	46.86	208.51	213.71	213.71	77.33	.21
3992.00	1.19	95.38	3984.52	46.83	210.75	215.88	215.89	77.47	.47
4085.00	.92	97.40	4077.50	46.65	212.45	217.50	217.51	77.62	.47
4178.00	.88	132.78	4170.49	46.07	213.72	218.60	218.62	77.84	.29 .59
4271.00	.92	157.17	4263.48	44.89	214.53	219.13	219.18	77.6 <del>4</del> 78.18	.59 .41
4364.00	1.23	164.86	4356.46	43.24	215.08	219.13	219.16		.41
4304.00	1.25	104.00	4330.40	43.24	215.06	219.29	219.30	78.63	.37
4457.00	1.23	182.02	4449.44	41.28	215.31	219.07	219.23	79.15	.39
4549.00	1.19	181.38	4541.42	39.34	215.25	218.58	218.81	79.64	.05
4642.00	1.36	201.03	4634.40	37.34	214.83	217.72	218.05	80.14	.50
4735.00	1.19	213.99	4727.38	35.51	213.89	216.40	216.82	80.57	.36
				00.01	210.00	210.40	210.02	00.07	.50

Measured	Measured Incl Drift 1							Vertical	CLOSURE		Dogleg	
Depth FT		N-S FT		Section FT	Distance FT	Direction Deg	Severity Deg/100					
4828.00	.88	188.63	4820.36	34.01	213.25	215.43	215.94	80.94	.59			
4921.00	.75	180.28	4913.35	32.69	213.14	215.03	215.63	81.28	.19			
5015.00	.62	208.67	5007.34	31.63	212.89	214.55	215.22	81.55	.38			
5107.00	1.14	192.59	5099.33	30.30	212.45	213.82	214.60	81.88	.62			
5200.00	1.05	193.42	5192.32	28.57	212.05	213.04	213.97	82.33	.10			
5293.00	1.63	189.64	5285.29	26.44	211.63	212.15	213.28	82.88	.63			
5323.00	1.76	188.06	5315.28	25.56	211.50	211.82	213.03	83.11	.46			
Projection to	TD											
5386.00	1.76	188.06	5378.25	23.64	211.22	211.13	212.54	83.61	.00			

# STATE OF UTAH

017112 01 017111
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

						RECEIVED
Well name an	d number: Ute Ti	ribal 30-05			·	AUG 1 5 2012
API number: _	4301350935					-
Well Location:	QQ SWNW Sect	ion <u>30</u> -	Township <u>5S</u> Range <u>3W</u>	_ Cou	nty Duchesne	DIV. OF OIL, GAS & MINING 
Well operator:	Petroglyph Ope	erating Com	pany, Inc.			
Address:	P.O. Box 607	····				
	city Roosevelt		state UT zip 84066	Ph	one: (435) 722-2531	
Drilling contra	ctor: Craig's Rou	stabout Ser	vice			
Address:	5053 South 46					
	city Vernal		state UT zip 84066	Ph	one: (435) 781-1366	
Mater encour	ntered (attach add					
vvater encoun	,				- OUALITY	1
	DEPT FROM	то	VOLUME (FLOW RATE OR HEAD)		QUALITY (FRESH OR SALT	(Y)
	0	190	LI GPM		Salty	
	<u></u>					
Formation top			2		3	
(TOP to Botton	4 _					- A 1104 -
	7		8			
	10		11		12	
If an analysis	has been made	of the water	encountered, please attach a	copy (	of the report to this form	
ii ari ariaiysis	nas peen made t	of the water	encountered, predoc attach a	ООРУ		,
I hereby certify	that this report is tr	ue and compl	ete to the best of my knowledge.			
NAME (PLEASE PI	Rodrigo Jura	do	TITL	E Reg	gultory Compliance Spc.	
SIGNATURE	Nta	Buch		8/3/	2012	

#### **Multi-Chem Analytical Laboratory**

1553 East Highway 40 Vernal, UT 84078

multi-chem

A HALLIBURTON SERVICE

Units of Measurement: Standard

Water Analysis Report

PETROGLYPH Production Company: Well Name:

Ute Tribal 30-05

Sample Point: Sample Date:

Sample ID:

Rat Hole Rig 4/5/2012 WA-215387

Sales Rep: James Patry Lab Tech: John Keel

Scaling potential predicted using ScaleSoftPitzer from

Brine Chemistry Consortium (Rice University)

		Analysis @ Prop	perties in Sample Specifics	
6/8/2012	Cations	mg/L	Anions	mg/L
300.00	Sodium (Na):	945.41	Chloride (Cl):	500.00
1300.0000	Potassium (K):	5.20	Sulfate (SO <sub>4</sub> ):	159.00
65.00	Magnesium (Mg):	24.40	Bicarbonate (HCO <sub>3</sub> ):	1586.00
14.7000	Calcium (Ca):	2.60	Carbonate (CO3):	
0.999	Strontium (Sr):		Acetic Acid (CH3COO)	
9.00	Barium (Ba):	0.00	Propionic Acid (C2H5COO)	
3223.11	Iron (Fe):	0.30	Butanoic Acid (C3H7COO)	
	Zinc (Zn):			
0.00	Lead (Pb):	0.20	Fluoride (F):	
0.00	Ammonia NH3:		Bromine (Br):	
0.00	Manganese (Mn):	0.00	Silica (SiO2):	
	300.00 1300.0000 65.00 14.7000 0.999 9.00 3223.11 0.00	6/8/2012	6/8/2012         Cations         mg/L           300.00         Sodium (Na):         945.41           1300.0000         Potassium (K):         5.20           65.00         Magnesium (Mg):         24.40           14.7000         Calcium (Ca):         2.60           0.999         Strontium (Sr):           9.00         Barium (Ba):         0.00           3223.11         Iron (Fe):         0.30           Zinc (Zn):         0.00           0.00         Lead (Pb):         0.20           0.00         Ammonia NH3:	6/8/2012         Cations         mg/L         Anions           300.00         Sodium (Na):         945.41 Chloride (Cl):           1300.0000         Potassium (K):         5.20 Sulfate (SO4):           65.00         Magnesium (Mg):         24.40 Bicarbonate (HCO3):           14.7000         Calcium (Ca):         2.60 Carbonate (CO3):           0.999         Strontium (Sr):         Acetic Acid (CH3COO)           9.00         Barium (Ba):         0.00 Propionic Acid (C3H7COO)           1ron (Fe):         0.30 Butanoic Acid (C3H7COO)           Zinc (Zn):         0.00 Isobutyric Acid ((CH3)2CHCOO)           Lead (Pb):         0.20 Fluoride (F):           Ammonia NH3:         Bromine (Br):

Notes:

#### (PTB = Pounds per Thousand Barrels)

	PSI	Calcium Carbonate		Bariun	Barium Sulfate		lron Sulfide		Iron Carbonate		Gypsum CaSO4·2H2O		Celestite SrSO4		Halite NaCl		Zinc Sulfide	
Temp (°F)		SI	РТВ	SI	РТВ	SI	РТВ	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	PTB	
65.00	14.00	0.85	1.95	0.00	0.00	0.00	0.00	1.68	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
91.00	157.00	0.90	1.98	0.00	0.00	0.00	0.00	1.83	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
117.00	300.00	0.98	2.03	0.00	0.00	0.00	0.00	1.99	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
143.00	443.00	1,07	2.08	0.00	0.00	0.00	0.00	2.14	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
169.00	585.00	1.17	2.12	0.00	0.00	0.00	0.00	2.29	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
195.00	728.00	1.29	2.16	0.00	0.00	0.00	0.00	2.42	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
221.00	871.00	1.41	2.18	0.00	0.00	0.00	0.00	2.55	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
247.00	1014.00	1.53	2.20	0.00	0.00	0.00	0.00	2.65	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
273.00	1157.00	1.64	2.22	0.00	0.00	0.00	0.00	2.73	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	1300.00	1.75	2.23	0.00	0.00	0.00	0.00	2.78	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

		Hemihydrate CaSO4~0.5H2 O		Anhydrate CaSO4		Calcium Fluoride		Zinc Carbonate		Lead Sulfide		Mg Silicate		Ca Mg Silicate		Fe Silicate	
Temp (°F)	PSI	SI	PTB	SI	РТВ	SI	PTB	SI	PTB	SI	PTB	SI	PTB	SI	РТВ	SI	PTB
65.00	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
91.00	157.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
117.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
143.00	443.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
169.00	585.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
195.00	728.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
221.00	871.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
247.00	1014.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
273.00	1157.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	1300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

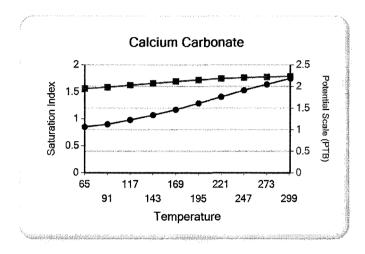
Excellence

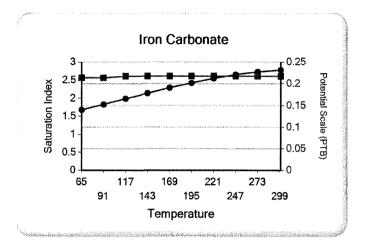
#### Multi-Chem Analytical Laboratory 1553 East Highway 40 Vernal, UT 84078



These scales have positive scaling potential under initial temperature and pressure: Calcium Carbonate Iron Carbonate

These scales have positive scaling potential under final temperature and pressure: Calcium Carbonate Iron Carbonate





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